FOREWORD

Landing bulletins provide records of amounts and values of various living marine resources taken by California's commercial fisheries, and summarize catches made by the partyboat sportfishing industry. They also detail the small quantities of freshwater fish taken commercially in inland areas. These data provide the basic background for managing California's marine fishery resources. The published figures are of local, national, and international significance, and are used by fisheries scientists, legislators, educators, members of the fishing industry, and others interested in California fisheries.

This report for 1971 is the 31st in the series of landing bulletins. The first, published in 1929, contained the records of the 1926 and 1927 commercial fish landings.

California's fishery statistics are based on a system whereby fish dealers, processors, and partyboat operators send duplicate copies of their landing records to the Department. The statistical system and methods used to collect the records were fully described in Fish Bulletin 86, which reported the catch for 1950. In the intervening years, methods and equipment have been modified as conditions warranted, but the basic principles have remained unchanged.

Credit for this publication belongs to the Marine Fisheries Statistics Unit personnel who process the many documents necessary for its publication. Special acknowledgment is given to Marine Resources Region wardens and the clerks in field offices whose efforts help provide completeness of records. The cooperation of the many wholesale fish dealers and canners is appreciated.

EXPLANATION OF TABLES

Tables in this bulletin summarize statistics of various fishery operations in California during 1971. Five types of activity are being reported this year: landings of commercial fishermen in California; imports of tuna from other states or foreign countries destined for processing in California; sport catches of the partyboat fleet; landings of inshore species used for bait; and catches of boats supplying live bait for sportfishing. In addition, the species composition of the 1971 ocean salmon landings is reported.

Statistics presented in this publication do not encompass all fishing activities in California since not all of these functions are reported. For example: sportfishing from private boats or from shore is not reported, nor is the quantity of fish imported for use in a fresh state compiled. Department biologists do sample some facets of the sport fishery, but since this is part of specific studies, most of the results are not reported here.

The Department annually publishes a circular which enumerates some fish products produced from the catch. The 1971 figures are contained in circular No. 46 "Statistical Report of Fresh, Canned, Cured and Manufactured Fishery Products for 1971" (Pinkas, 1972).

SOURCE OF DATA

Data concerning each commercial landing, inshore bait delivery, and import are recorded on receipts by fish dealers or processors at the time of delivery. Copies of these documents are transmitted to the Department twice each month. For each transaction, the dealer is required to provide the species weight and price paid to the fishermen. The date of the transaction, the fisherman's name, the fishing boat registration number, and intended use of the fish (canning, fresh, etc.) also are required. In addition, type of gear used and the specific area where the fish were caught usually are reported.

Partyboat catch data are obtained from logs completed by the boat operator. The log for each trip indicates the number of each species taken, number of anglers, number of hours fished, and the specific area fished. The date, boat name, and boat registration number also are furnished. Copies of these records are sent to the Department monthly.

Operators of boats supplying live bait keep a voluntary daily log showing number of sets, species caught, area fished, and number of scoops of bait sold. Copies of these logs are furnished the Department monthly. While these records represent most live bait landings, the reported catch should be regarded as minimal.

Clerical personnel at field offices in Eureka, Menlo Park, Long Beach, and San Diego maintain contact with fish dealers and local Fish and Game Wardens to insure that the records are accurate and transmitted promptly. All data received by the Department are carefully edited for completeness and coded to facilitate processing. The information

then is punched into cards and summarized with electric tabulating machines.

STATISTICAL AREAS

California is divided into seven areas for the purpose of reporting fisheries statistics (Figure 1). Each statistical area is named for a major port within its boundaries. Sacramento area landing statistics are incorporated with San Francisco totals in the tables.

SPECIES

The common and scientific names of species reported in 1971 are listed (Table 1). Some varieties are reported only collectively when, for economic or other reasons, a specific separation is not practical. A further combination of species is made in preparing the tables.

The "Miscellaneous (Animal Food)" category consists of a variety of low value species caught by trawling. Since it is impractical for dealers to report the many species separately, Department biologists periodically sample this catch to determine its species composition. Based on this sampling, the percentage and weight compositions of 1971 animal food landings are as follows:

Species	*Percent*	*Pounds*
Rockfish (15 species)	23.0	227,508
Sablefish	22.4	221,572
Dover sole	17.6	174,093
Pacific hake	11.3	111,775
English sole	6.3	62,317
Rex sole	5.8	57,372
Arrowtooth flounder	4.5	44,512
Twenty-one other species	9.1	90,014
	100.0	989,163

Salmon landings reported in the tables are for all species combined. However, biologists from the Department's Anadromous Fisheries Branch sample the commercial and sport salmon fisheries to determine species composition of catches and to obtain estimates of the unreported skiff catch. The sampling methods and results for 1952 through 1965 were detailed by Jensen and Swartzell (1967); since 1966, results have been presented annually in the landing bulletins.

CONDITION

Most fish and shellfish are landed in a round condition; however, some species, such as barracuda, salmon, and swordfish, are usually eviscerated or cleaned before being brought ashore. The condition of fish landed or shipped into the state cannot always be determined, so the tables represent summarized weights as reported to the Department without regard to condition.

Since 1963, oyster landings have been reported as packed weight rather than weight in the shell. Packed weight is estimated to be 15.5% of the live weight for Pacific oysters and 10.9% for eastern oysters.

Landings reported in measurements other than weight are equated to pounds using conversion factors determined by periodic sampling.

Factors used in 1971 were:

Abalone, red	50	pounds per dozen
Abalone, pink	25	pounds per dozen
Abalone, white	25	pounds per dozen
Abalone, green	35	pounds per dozen
Clam, Washington	7	pounds per dozen
Crab, market	2	pounds each
Live bait	12.5	pounds per scoop

VALUE

Value is computed from prices paid to fishermen. Area value figures are ascertained by summing the value of all individual landings in that area. The value for an individual port within an area is calculated from weights of each species landed at that port and the average price paid for the species in that area. When the price paid for an individual landing is not specified, the average price paid for the species in the area is used.

INSHORE BAIT

The inshore bait fishery takes several kinds of fish and invertebrates from bays, rivers, and intertidal regions. Records of this fishery have been published as a separate summary in landing bulletins since 1963. Conversion factors used for inshore bait for 1971 were as follows:

Crab, sand	0.041	pound	per dozen
	4.5	pounds	per gallon
Crab, shore	0.013	pound	per dozen
Mudsucker	0.465	pound	per dozen
Mussel	80.000	pounds	per sack
Sculpin, staghorn	0.465	pound	per dozen
Shrimp, ghost	0.082	pound	per dozen

REFERENCES

Pinkas, Leo. 1972. Statistical report of fresh, canned, cured and manufactured fishery products for 1971. Calif. Dept. Fish and Game, Circular, (46) : 1–19.

Jensen, Paul T., and Phillip G. Swartzell. 1967. California salmon landings 1952 through 1965, Calif. Dept. Fish and Game, Fish Bull., (135) : 43–57.

TABLE 1

Common and Scientific Names of Fishes, Crustaceans, and Mollusks in the 1971 Catch

Common name	Scientific name
FISHES	
Anchovy	*Engraulis mordax*
Barracuda, California	*Sphyraena argentea*
Bass, rock	
Kelp bass	*Paralabrax clathratus*
Sand bass	*Paralabrax nebulifer*
Spotted sand bass	*Paralabrax maculatofasciatus*
Blacksmith	*Chromis punctipinnis*
Bonito, Pacific	*Sarda chiliensis*
Cabezon	*Scorpaenichthys marmoratus*
Cabrilla, spotted	*Epinephelus analogus*
Croaker	
White	*Genyonemus lineatus*
Queenfish	*Seriphus politus*
Dolphinfish	*Coryphaena hippurus*
Eel	
California moray	*Gymnothorax mordax*
Wolf	*Anarrichthys ocellatus*
Flounder	
Arrowtooth	*Atheresthes stomias*
Starry	*Platichthys stellatus*
Miscellaneous	Various species
Flyingfish	*Cypselurus* spp.
Freshwater fish	
Carp	*Cyprinus carpio*
Hardhead	*Mylopharodon conocephalus*
Hitch	*Lavinia exilicauda*
Sacramento blackfish	*Orthodon microlepidotus*
Greenling, kelp	*Hexagrammos decagrammus*
Grouper	*Mycteroperca* spp.
Hake, Pacific	*Merluccius productus*
Halfmoon	*Medialuna californiensis*
Halibut	
California	*Paralichthys californicus*
Pacific	*Hippoglossus stenolepis*
Herring, Pacific	*Clupea harengus*
Killifish	*Fundulus parvipinnis*
Lingcod	*Ophiodon elongatus*
Mackerel	
Jack	*Trachurus symmetricus*
Pacific	*Scomber japonicus*
Mudsucker, longjaw	*Gillichthys mirabilis*
Opaleye	*Girella nigricans*
Pacific cod	*Gadus macrocephalus*
Perch	Members of family Embiotocidae
Pompano, Pacific	*Peprilus simillimus*
Rockfish	Various species of *Sebastes* and *Sebastolobus* spp.
Sablefish	*Anoplopoma fimbria*
Salema	*Xenistius californiensis*
Salmon	
King	*Oncorhynchus tshawytscha*
Pink	*Oncorhynchus gorbuscha*
Silver	*Oncorhynchus kisutch*
Sanddab	*Citharichthys sordidus*
Sardine	*Sardinops sajax caeruleus*
Sargo	*Anisotremus davidsoni*
Sculpin	*Scorpaena guttata*
Sculpin, Pacific staghorn	*Leptocottus armatus*
Sea bass, giant	*Stereolepis gigas*
Seabass, white	*Cynoscion nobilis*
Shark	
Basking	*Cetorhinus maximus*
Blue	*Prionace glauca*
Bonito	*Isurus oxyrinchus*
Leopard	*Triakis semifasciata*
Pacific angel	*Squatina californica*
Soupfin	*Galeorhinus zyopterus*
Spiny dogfish	*Squalus acanthias*
Thresher	*Alopias vulpinus*
Miscellaneous	Various species
Sheephead, California	*Pimelometopon pulchrum*
Skate	
Bat ray	*Myliobatis californica*
Big skate	*Raja binoculata*
California skate	*Raja inornata*
Longnose skate	*Raja rhina*
Shovelnose guitarfish	*Rhinobatos productus*
Miscellaneous	Various species
Smelt	
Jacksmelt	*Atherinopsis californiensis*
Night smelt	*Spirinchus starksi*
Surf smelt	*Hypomesus pretiosus*
Smelt, whitebait	*Allosmerus elongatus* *Spirinchus starksi* Young of several spp.
Sole	
Dover	*Microstomus pacificus*
English	*Parophrys vetulus*
Petrale	*Eopsetta jordani*
Rex	*Glyptocephalus zachirus*
Rock	*Lepidopsetta bilineata*
Sand	*Psettichthys melanostictus*
Butter	*Isopsetta isolepis*
Miscellaneous	Various species
Swordfish	*Xiphias gladius*
Tuna	
Albacore	*Thunnus alalunga*
Bigeye	*Thunnus obesus*
Bluefin	*Thunnus thynnus*
Skipjack	*Euthynnus pelamis*
Yellowfin	*Thunnus albacares*
Turbot	
Curlfin	*Pleuronichthys decurrens*
Diamond	*Hypsopsetta guttulata*
Hornyhead	*Pleuronichthys verticalis*
Miscellaneous	Various species
Wahoo	*Acanthocybium solanderi*
Whitefish, ocean	*Caulolatilus princeps*
Yellowtail, California	*Seriola dorsalis*
CRUSTACEANS	
Crab	
Market	*Cancer magister*
Rock	*Cancer productus* *Cancer antennarius* *Cancer anthonyi*
Sand	*Emerita analoga*
Shore	*Hemigrapsus oregonensis* *Pachygrapsus crassipes*
Spider	*Lozorhynchus* sp.
Crayfish	*Astacus trowbridgei*
Lobster, spiny	*Panulirus interruptus*
Prawn	
Ridgeback	*Eusicyonia ingentis*
Spot	*Pandalus platyceros*
Shrimp	
Bay	*Crago franciscorum* *Crago nigricauda*
Ghost	*Callianassa californicus*
Ocean	*Pandalus jordani*
Red	*Hippolysmata californica*
ECHINODERMS	
Sea star	*Pisaster* spp.
Sea urchin	*Strongylocentrotus* spp.
MOLLUSKS	
Abalone	
Black	*Haliotis cracherodii*
Green	*Haliotis fulgens*
Pink	*Haliotis corrugata*
Red	*Haliotis rufescens*
Threaded	*Haliotis assimilis*
White	*Haliotis sorenseni*
Clam	
Freshwater	*Corbicula fluminea*
Jackknife	*Tagelus californianus*
Purple	*Sanguinolaria nuttalli*
Clam—continued	
Quahog	*Mercenaria mercenaria*
Washington	*Saxidomus nuttalli*
Mussel	
Bay	*Mytilus edulis*
Rock	*Mytilus californianus*
Octopus	*Octopus* spp.
Oyster	
Eastern	*Crassostrea virginica*
Giant Pacific	*Crassostrea gigas*
Squid	*Loligo opalescens*

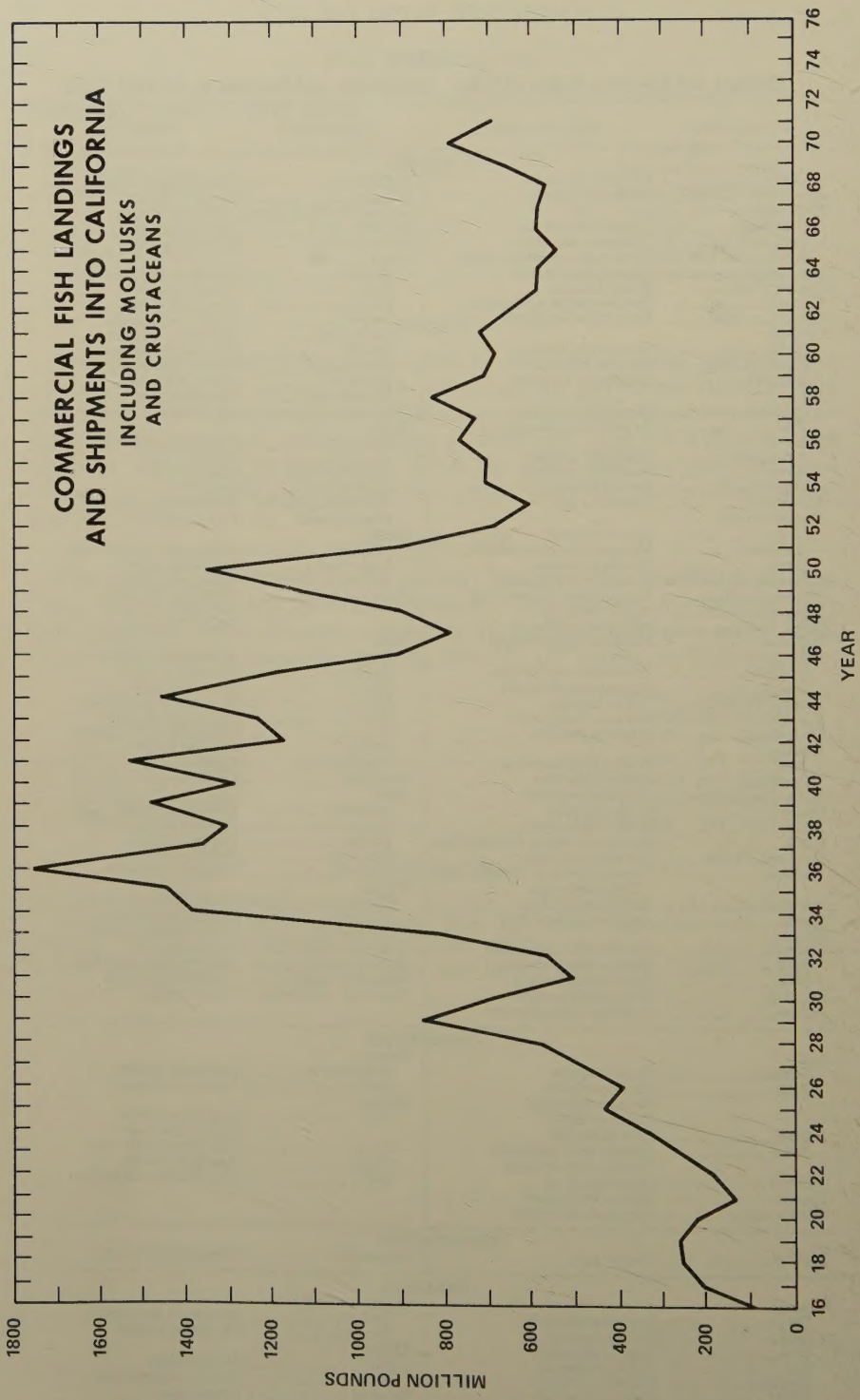

FIGURE 2. Total annual landings and shipments into California (see Table 2). Sardine deliveries to reduction ships, 1930–38 are included. Since 1965, tunas are the only species included in shipments.

TABLE 2

Total Annual Landings and Shipments Into California of Commercial Fish, Mollusks, and Crustaceans; Includes Sardine Deliveries to Reduction Ships During 1930 Through 1938

Year	Thousands of pounds	Year	Thousands of pounds
1916	95,003	1946	919,822
1917	209,877	1947	795,499
1918	261,134	1948	900,467
1919	266,270	1949	1,135,339
1920	222,004	1950	1,366,676
1921	135,348	1951	904,114
1922	182,343	1952	694,996
1923	253,875	1953	618,919
1924	340,446	1954	713,410
1925	437,502	1955	710,713
1926	394,964	1956	772,551
1927	487,166	1957	738,550
1928	583,527	1958	832,919
1929	856,854	1959	713,423
1930	702,189	1960	694,663
1931	502,390	1961	725,253
1932	556,139	1962	663,107
1933	821,805	1963	592,899
1934	1,390,798	1964	591,131
1935	1,448,017	*1965	544,480
1936	1,764,900	1966	591,533
1937	1,362,984	1967	589,028
1938	1,310,596	1968	567,214
1939	1,486,535	1969	672,793
1940	1,297,518	1970	798,415
1941	1,528,892	1971	687,995
1942	1,173,414		
1943	1,234,049		
1944	1,459,456		
1945	1,216,501		

* Beginning in 1965 only tuna shipments are recorded.

TABLE 3

Landings and Shipments of Leading Species Ranked by Pounds *

1970				1971			
Species	Rank	Thousands of pounds	Thousands of dollars	Species	Rank	Thousands of pounds	Thousands of dollars
Yellowfin tuna	1	261,817	$50,399	Yellowfin tuna	1	168,365	$36,211
Anchovy	2	192,485	2,157	Skipjack tuna	2	154,942	30,570
Skipjack tuna	3	96,918	15,868	Anchovy	3	89,705	1,093
Albacore tuna	4	73,112	22,274	Albacore tuna	4	68,131	22,675
Jack Mackerel	5	47,746	1,881	Jack mackerel	5	59,883	2,416
Squid	6	24,591	667	Squid	6	31,517	760
Market crab	7	15,414	3,946	Pacific bonito	7	20,269	1,841
Dover sole	8	15,161	1,233	Bluefin tuna	8	19,828	4,207
Rockfish	9	10,687	824	Dover sole	9	14,249	1,178
Bluefin tuna	10	9,531	1,803	Rockfish	10	11,169	942
Pacific bonito	11	9,192	651	Market crab	11	9,662	2,821
Salmon	12	6,612	5,101	Salmon	12	8,117	4,757
Sablefish	13	4,428	319	Sablefish	13	4,424	290
Ocean shrimp	14	4,048	567	Petrale sole	14	3,704	611
Petrale sole	15	3,416	531	Ocean shrimp	15	3,081	400
English sole	16	3,282	324	English sole	16	2,964	316
Abalone	17	2,901	948	Abalone	17	2,945	953
Rex sole	18	1,741	190	Lingcod	18	2,098	201
Lingcod	19	1,531	139	Bigeye tuna	19	1,871	394
Swordfish	20	945	534	Rex sole	20	1,468	169
All others	--	12,857	3,023	All others	--	9,603	2,658
Totals	--	**798,415**	**$113,379**	**Totals**	--	**687,995**	**$115,463**

* Only the tunas are included in the shipments.

TABLE 4

Number of Licensed Commercial Fishermen

Area of residence	License year*	
	1970–71	1971–72
Eureka	1,735	1,846
Sacramento	409	455
San Francisco	1,546	1,711
Monterey	712	686
Santa Barbara	751	871
Los Angeles	1,744	2,028
San Diego	1,386	1,652
Alaska, Washington and Oregon fishermen licensed in California	627	848
Mexican nationals licensed in California	19	26
Other	40	58
Totals	8,969	10,181

* April 1 to March 31.

TABLE 5

Number of Registered Fishing Boats by Length

Length group in feet	License year*		Length group in feet	License year*	
	1970–71	1971–72		1970–71	1971–72
0 –10	5	5	101–105	7	8
11– 15	125	128	106–110	6	7
16– 20	712	807	111–115	8	5
21– 25	430	553	116–120	16	11
26– 30	577	645	121–125	6	6
31– 35	515	600	126–130	12	9
36– 40	713	787	131–135	11	8
41– 45	384	446	136–140	11	11
46– 50	300	349	141–145	1	1
51– 55	126	147	146–150	0	0
56– 60	104	124	151–155	11	17
61– 65	109	120	156–160	4	4
66– 70	29	34	161–165	3	4
71– 75	31	37	166–170	3	5
76– 80	25	28	171–175	1	4
81– 85	22	21	176–180	0	0
86– 90	8	8	181 and over	6	9
91– 95	8	7			
96–100	8	7	Total	4,337†	4,962‡

* April 1 to March 31.
† The owners of 457 boats were issued fishing party licenses in 1970–71.
‡ The owners of 482 boats were issued fishing licenses in 1971–72.

TABLE 6

Origin of Shipments Received for Processing in California During 1971 *

Shipped from: Species	Pounds shipped to each area		Total pounds
	Los Angeles	San Diego	
Continental United States:			
Tuna, skipjack	41,977	----	41,977
Tuna, skipjack, black	5,000	----	5,000
Oregon, Washington, Canada and Alaska:			
Tuna, albacore	3,011,440	----	3,011,440
Tuna, skipjack	----	16,377	16,377
Tuna, yellowfin	3,620	----	3,620
Mexico and Central America:			
Tuna, bluefin	138,172	115,088	253,260
Tuna, skipjack	2,868,686	589,587	3,458,273
Tuna, skipjack, black	23,275	----	23,275
Tuna, yellowfin	3,165,805	1,355,498	4,521,303
South America:			
Tuna, albacore	2,816,049	187,815	3,003,864
Tuna, bigeye	41,839	----	41,839
Tuna, skipjack	6,670,420	----	6,670,420
Tuna, yellowfin	4,424,334	----	4,424,334
Japan:			
Tuna, albacore	16,993,140	2,008,827	19,001,967
Tuna, bigeye	23,180	----	23,180
Tuna, skipjack	31,548,690	4,558,590	36,107,280
Tuna, yellowfin	4,183,878	386,311	4,570,189
Australia and New Zealand:			
Tuna, albacore	41,002	----	41,002
Tuna, bluefin	2,323,805	----	2,323,805
Tuna, skipjack	2,623	----	2,623
China (Formosa):			
Tuna, albacore	143,060	----	143,060
Tuna, skipjack	141,208	--	141,208
Tuna, skipjack, black	27,525	----	27,525
Tuna, yellowfin	849,191	159,533	1,008,724
Malaya:			
Tuna, albacore	994,985	----	994,985
Tuna, skipjack	64,060	----	64,060
Tuna, yellowfin	599,480	----	599,480
South Pacific Islands:			
Tuna, albacore	5,817,537	----	5,817,537
Tuna, skipjack	2,904,251	----	2,904,251
Tuna, yellowfin	699,701	----	699,701
Africa:			
Tuna, skipjack	4,145,429	----	4,145,429
Tuna, yellowfin	284,698	----	284,698
Philippines:			
Tuna, skipjack	12,612	----	12,612
Tuna, yellowfin	1,311,639	----	1,311,639
Total pounds	**96,322,311**	**9,377,626**	**105,699,937**

* Beginning in 1965 only tuna shipments are recorded.

TABLE 7

Origin of Commercial Fish Landings and Volume of Shipments Into California During 1971

Species	Landings of catches from						
	California waters	Waters north of State	Waters south of State	African waters	Total pounds	Tuna shipments*	Grand total
Fish:							
Anchovy	89,704,894	----	174	----	89,705,068	----	89,705,068
Barracuda, California	17,224	----	40	----	17,264	----	17,264
Blackfish, Sacramento	320,258	----	----	----	320,258	----	320,258
Blacksmith	42,340	----	----	----	42,340	----	42,340
Bonito, Pacific	10,476,268	----	9,792,716	----	20,268,984	----	20,268,984
Cabezon	4,518	----	----	----	4,518	----	4,518
Carp	278,636	----	----	----	278,636	----	278,636
Croaker, white	334,395	----	30	----	334,425	----	334,425
Dolphinfish	----	----	839	----	839	----	839
Flounder	293,225	665	----	----	293,890	----	293,890
Flounder, arrowtooth	2,661	----	----	----	2,661	----	2,661
Flyingfish	160,266	----	----	----	160,266	----	160,266
Hake, Pacific	34,685	----	----	----	34,685	----	34,685
Halfmoon	23,122	----	----	----	23,122	----	23,122
Halibut, California	336,416	----	455	----	336,871	----	336,871
Halibut, Pacific	25	----	----	----	25	----	25
Herring, Pacific	240,936	----	----	----	240,936	----	240,936
Hitch	1,200	----	----	----	1,200	----	1,200
Lingcod	2,032,654	64,659	636	----	2,097,949	----	2,097,949
Mackerel, jack	59,882,936	----	49	----	59,882,985	----	59,882,985
Mackerel, Pacific	155,690	----	157	----	155,847	----	155,847
Mudsucker, longjaw	1,948	----	----	----	1,948	----	1,948
Opaleye	5,281	----	----	----	5,281	----	5,281
Perch	184,256	490	192	----	184,938	----	184,938
Pompano, Pacific	181,918	----	13	----	181,931	----	181,931
Rockfish	10,949,048	156,713	62,985	----	11,168,746	----	11,168,746
Sablefish	4,335,714	88,749	----	----	4,424,463	----	4,424,463
Salmon	8,115,432	1,446	----	----	8,116,878	----	8,116,878
Sanddab	784,539	862	----	----	785,401	----	785,401
Sardine	297,886	----	----	----	297,886	----	297,886
Sargo	353	----	81	----	434	----	434
Sculpin	42,059	----	89,085	----	131,144	----	131,144
Sea bass, giant	10,561	----	106,697	----	117,258	----	117,258
Seabass, white	551,912	----	271,972	----	823,884	----	823,884
Shark	392,196	----	29,139	----	421,335	----	421,335

Sheephead, California	8,571	----	283	----	8,854	----	8,854
Skate	61,233	----	----	----	61,233	----	61,233
Smelt	348,401	----	----	----	348,401	----	348,401
Smelt, whitebait	146,752	----	----	----	146,752	----	146,752
Sole, Dover	13,466,250	782,469	----	----	14,248,719	----	14,248,719
Sole, English	2,949,139	14,876	----	----	2,964,015	----	2,964,015
Sole, petrale	3,673,873	30,511	----	----	3,704,384	----	3,704,384
Sole, rex	1,432,136	35,739	----	----	1,467,875	----	1,467,875
Sole, sand	291,196	1,221	----	----	292,417	----	292,417
Sole, miscellaneous	15,389	----	106	----	15,495	----	15,495
Swordfish	152,973	----	1,545	----	154,518	----	154,518
Tuna, albacore	28,622,230	345,575	7,148,929	----	36,116,734	32,013,855	68,130,589
Tuna, bigeye	----	----	1,806,038	----	1,806,038	65,019	1,871,057
Tuna, bluefin	471,247	----	16,779,719	----	17,250,966	2,577,065	19,828,031
Tuna, skipjack	4,680	----	97,834,786	3,538,172	101,377,638	53,564,510	154,942,148
Tuna, skipjack, black	----	----	----	----	----	55,800	55,800
Tuna, yellowfin	145,001	----	150,103,646	692,464	150,941,111	17,423,688	168,364,799
Turbot	24,882	----	----	----	24,882	----	24,882
Wahoo	----	----	230	----	230	----	230
Whitefish, ocean	2,199	----	1,507	----	3,706	----	3,706
Yellowtail, California	31,004	----	359,516	----	390,520	----	390,520
Frog	9,866	----	----	----	9,866	----	9,866
Miscellaneous	1,169	----	----	----	1,169	----	1,169
Miscellaneous (animal food)	806,406	182,757	----	----	989,163	----	989,163
Crustacean:							
Crab, market	9,662,265	----	----	----	9,662,265	----	9,662,265
Crab, rock	541,213	----	1,519	----	542,732	----	542,732
Crayfish	137,966	----	----	----	137,966	----	137,966
Lobster, spiny	224,486	----	----	----	224,486	----	224,486
Prawn, spot	11,773	----	----	----	11,773	----	11,773
Shrimp, bay	1,899	----	----	----	1,899	----	1,899
Shrimp, ocean	2,683,305	397,278	----	----	3,080,583	----	3,080,583
Miscellaneous crustacean	30	----	----	----	30	----	30
Echinoderm:							
Sea star	450	----	----	----	450	----	450
Sea urchin	200	----	----	----	200	----	200
Mollusk:							
Abalone	2,945,318	----	----	----	2,945,318	----	2,945,318
Clam, unclassified	165	----	----	----	165	----	165
Mussel	988	----	----	----	988	----	988
Octopus	1,603	201	----	----	1,804	----	1,804
Oyster, eastern	13,852	----	----	----	13,852	----	13,852
Oyster, giant Pacific	964,974	----	----	----	964,974	----	964,974
Squid	31,517,293	----	115	----	31,517,408	----	31,517,408
Total pounds	**291,567,829**	**2,104,211**	**284,393,199**	**4,230,636**	**582,295,875**	**105,699,937**	**687,995,812**

* For origin of shipments, refer to Table 6. Beginning in 1965 only tuna shipments are recorded.

TABLE 8

Monthly Landings and Shipments Into California During 1971

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS:													
Fish:													
Anchovy	34,279,430	846,854	344,133	913,979	8,617,292	256,387	201,253	781,206	2,084,940	30,601,284	4,441,212	6,337,098	89,705,068
Barracuda, California	6	22	269	945	1,740	9,175	1,699	376	383	41	2,608	----	17,264
Blackfish, Sacramento	62,005	51,456	90,253	17,475	23,170	9,450	----	----	----	2,992	34,190	29,267	320,258
Blacksmith	5,540	----	----	24,000	----	10,000	----	----	----	2,800	----	----	42,340
Bonito, Pacific	320,802	218,662	182,921	24,180	705,668	836,680	1,571,283	5,603,528	6,324,314	2,300,740	1,226,753	953,453	20,268,984
Cabezon	560	792	561	219	465	33	51	79	87	667	771	233	4,518
Carp	95,929	38,401	34,949	10,217	16,919	4,501	----	----	----	4,027	32,850	40,843	278,636
Croaker, white	39,632	17,602	83,428	15,712	7,640	24,247	17,479	23,952	15,865	7,872	17,931	63,065	334,425
Dolphinfish	----	----	----	----	----	----	----	----	----	----	730	109	839
Flounder	16,576	31,411	23,788	19,069	13,126	31,427	8,205	9,235	30,504	50,706	43,913	15,930	293,890
Flounder, arrowtooth	950	786	----	----	----	----	----	----	215	500	210	----	2,661
Flyingfish	----	----	----	----	20,105	60,351	41,570	38,240	----	----	----	----	160,266
Hake, Pacific	----	----	----	----	425	18,485	12,060	3,715	----	----	----	----	34,685
Halfmoon	960	1,688	956	1,474	3,892	5,741	3,437	2,133	1,301	439	796	305	23,122
Halibut, California	28,964	17,995	22,120	10,096	33,831	52,336	31,609	62,905	38,880	14,542	10,699	12,894	336,871
Halibut, Pacific	----	----	----	----	----	25	----	----	----	----	----	----	25
Herring, Pacific	6,400	8,266	3,970	----	49,175	40,575	25,950	106,600	----	----	----	----	240,936
Hitch	----	----	----	----	----	----	----	----	----	----	----	----	1,200
Lingcod	39,792	47,991	70,178	130,444	137,059	341,540	337,269	387,516	239,528	182,075	109,462	75,095	2,097,949
Mackerel, jack	2,578,349	2,425,878	8,604,649	5,159,701	1,425,715	5,031,106	2,329,533	6,580,970	2,228,823	1,746,576	16,570,052	5,201,633	59,882,985
Mackerel, Pacific	1,126	85	4,342	352	1,552	1,876	12,844	125	20,444	4,724	49,628	58,749	155,847
Mudsucker, longjaw	49	187	59	168	224	90	225	362	46	324	127	87	1,948
Opaleye	----	542	250	367	827	734	282	1,640	74	----	210	355	5,281
Perch	11,717	13,056	27,159	50,678	2,475	7,903	14,833	19,846	9,436	12,082	8,955	6,798	184,938
Pompano, Pacific	27,399	6,734	63,312	52,005	8,976	2,056	978	2,285	9,683	1,106	4,818	2,579	181,931
Rockfish	634,021	792,111	1,117,270	1,092,748	829,236	1,049,496	824,333	827,788	980,283	1,266,300	1,149,278	605,882	11,168,746
Sablefish	454,417	295,104	505,915	276,700	224,782	419,080	310,154	356,832	361,693	340,393	329,216	550,177	4,424,463
Salmon	----	----	----	3,419	903,371	2,513,516	3,228,079	1,250,673	217,494	326	----	----	8,116,878
Sanddab	36,178	87,046	75,155	109,176	63,064	92,501	51,179	52,863	56,804	98,936	51,430	11,069	785,401
Sardine	6,078	9,142	25,933	39,559	21,623	19,760	53,135	51,725	36,349	16,577	16,755	1,250	297,886
Sargo	----	----	11	81	----	180	162	----	----	----	----	----	434
Sculpin	5,498	4,168	1,656	699	2,320	30,412	38,302	29,132	8,794	4,324	2,816	3,023	131,144
Sea bass, giant	6,388	4,942	10,485	12,547	1,353	5,798	1,708	1,014	18,202	22,120	23,673	9,028	117,258
Seabass, white	34,123	43,322	90,929	60,190	15,904	59,259	29,463	212,015	55,939	109,698	45,386	67,656	823,884
Shark	33,561	20,600	11,691	12,707	43,156	50,198	60,679	29,463	45,155	44,598	40,975	28,552	421,335
Sheephead, California	161	1,044	860	103	665	1,529	1,765	650	97	328	1,197	455	8,854
Skate	765	2,070	5,491	6,329	14,566	9,144	3,428	6,462	7,045	2,453	700	2,780	61,233
Smelt	5,288	8,078	7,928	14,497	23,221	66,050	59,170	53,924	41,913	37,040	30,392	900	348,401
Smelt, whitebait	6,178	6,867	10,920	12,793	23,281	45,445	26,228	15,040	----	----	----	----	146,752
Sole, Dover	468,034	811,137	1,794,458	1,509,767	452,013	1,384,318	1,485,966	1,981,235	1,760,412	1,129,045	980,651	491,683	14,248,719

Sole, English	297,590	350,811	286,231	265,749	141,892	242,953	175,030	194,994	278,152	307,937	217,298	205,378	2,964,015
Sole, petrale	412,155	304,323	239,584	272,626	381,889	347,742	213,601	315,927	222,977	244,642	240,286	508,632	3,704,384
Sole, rex	150,572	200,769	165,433	115,891	49,133	122,181	117,446	104,083	130,866	129,536	99,618	82,347	1,467,875
Sole, sand	29,436	18,652	18,042	18,051	17,178	61,703	4,429	5,010	8,190	39,539	44,984	27,203	292,417
Sole, miscellaneous	762	1,120	254	497	775	344	1,667	2,929	1,822	1,538	1,699	2,088	15,495
Swordfish	----	----	----	----	----	571	1,943	33,847	53,937	56,200	7,640	380	154,518
Tuna, albacore	----	----	----	174	9,570	91	4,793,056	12,493,515	14,829,345	3,309,693	664,538	16,752	36,116,734
Tuna, bigeye	----	52,086	95,862	48,533	----	----	----	62,185	----	----	----	1,547,372	1,806,038
Tuna, bluefin	----	49,365	----	----	801,831	3,812,626	3,141,758	3,732,471	2,417,482	2,462,776	445,910	386,747	17,250,966
Tuna, skipjack	530,118	6,209,629	13,611,675	15,299,750	12,987,011	22,822,720	15,375,380	3,264,356	1,162,174	1,146,390	3,052,003	5,916,432	101,377,638
Tuna, yellowfin	4,313,192	24,881,605	19,515,797	21,971,764	11,987,777	14,403,433	9,808,222	4,040,094	7,121,074	9,612,810	11,659,103	11,626,240	150,941,111
Turbot	460	2,348	5,152	4,053	7,390	2,336	395	90	375	771	517	995	24,882
Wahoo	----	----	----	----	----	----	----	----	----	----	230	----	230
Whitefish, ocean	456	115	260	314	1,148	419	102	408	131	----	60	293	3,706
Yellowtail, California	18,643	27,052	18,265	6,855	8,958	10,044	5,170	135,677	104,290	6,952	25,067	23,547	390,520
Frog	----	----	32	18	----	12	----	302	2,860	4,582	1,645	415	9,866
Miscellaneous	----	----	----	50	18	339	64	44	259	52	88	255	1,169
Miscellaneous (animal food)	64,849	65,002	34,601	58,902	110,609	142,448	144,808	102,704	95,211	71,484	55,223	43,322	989,163
Crustacean:													
Crab, market	112,457	2,864,384	3,145,624	395,692	557,739	418,803	67,532	22,221	24	----	123,079	1,954,710	9,662,265
Crab, rock	51,259	53,277	50,859	47,924	41,906	44,938	47,613	50,056	41,639	29,835	27,101	56,325	542,732
Crayfish	----	----	57	----	16,587	28,257	48,725	41,738	1,524	539	460	79	137,966
Lobster, spiny	27,063	25,729	10,364	----	----	----	----	----	----	64,362	55,479	41,489	224,486
Prawn, spot	2,236	1,793	672	----	----	26	----	----	----	1,354	3,339	2,353	11,773
Shrimp, bay	1,358	341	180	----	----	----	----	20	----	----	----	----	1,899
Shrimp, ocean	----	----	----	----	----	439,212	942,555	1,009,528	482,808	206,480	----	----	3,080,583
Miscellaneous crustacean	----	----	----	----	----	----	----	----	----	----	30	----	30
Echinoderm:													
Sea star	----	----	----	----	----	----	----	----	----	450	----	----	450
Sea urchin	----	----	----	----	----	200	----	----	----	----	----	----	200
Mollusk:													
Abalone	627,735	879	247,023	179,370	328,037	314,654	339,478	742	192,579	233,062	238,874	242,885	2,945,318
Clam, unclassified	5	12	20	10	10	----	----	20	10	----	10	68	165
Mussel	188	275	150	50	----	----	----	----	----	----	275	50	988
Octopus	32	178	45	126	169	110	197	304	169	134	143	197	1,804
Oyster, eastern	1,520	1,028	1,260	1,143	1,176	797	608	1,386	1,721	914	1,166	1,133	13,852
Oyster, giant Pacific	99,316	95,779	113,424	93,456	85,614	59,476	44,597	43,755	46,721	85,081	103,226	94,529	964,974
Squid	5,544,760	2,624,333	677,134	2,573,056	3,699,779	9,219,239	3,873,525	356,752	2,017,218	430,960	493,825	6,827	31,517,408
Total pounds	51,493,038	43,644,924	51,453,999	50,936,450	44,925,027	64,987,078	49,932,212	44,508,687	43,808,261	56,454,908	42,791,300	37,359,991	582,295,875
SHIPMENTS:													
Fish:													
Tuna, albacore	1,991,391	1,632,747	2,036,704	1,791,395	919,321	477,433	1,492,900	3,111,162	255,424	2,578,477	6,881,993	8,844,908	32,013,855
Tuna, bigeye	41,839	----	----	----	22,695	----	485	----	----	----	----	----	65,019
Tuna, bluefin	519,483	200,203	655,644	----	----	273,683	147,545	----	123,588	11,684	244,605	400,630	2,577,065
Tuna, skipjack	3,696,819	3,085,962	8,076,117	10,149,265	3,959,573	1,920,992	586,738	1,609,245	1,157,159	1,956,129	8,345,092	9,021,419	53,564,510
Tuna, skipjack, black	----	----	----	----	----	50,800	5,000	----	----	----	----	----	55,800
Tuna, yellowfin	809,098	779,707	2,755,506	446,014	554,791	858,448	205,020	679,056	818,741	1,770,146	3,455,324	4,291,537	17,423,688
Total pounds	7,058,630	5,698,619	13,523,971	12,386,674	5,456,380	3,581,356	2,437,688	5,399,463	2,354,912	6,316,736	18,927,014	22,558,494	105,699,937
Grand total	58,551,668	49,343,543	64,977,970	63,323,124	50,381,407	68,568,434	52,369,900	49,908,150	46,163,173	62,771,644	61,718,314	59,918,485	687,995,812

* For origin of shipments refer to Table 6. Beginning in 1965 only tuna shipments are recorded.

TABLE 9

Monthly Landings of Commercial Fishing Boats in the Eureka Area During 1971

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Bonito, Pacific	----	----	----	----	----	----	----	----	----	390	----	----	390
Cabezon	----	----	----	----	----	----	51	----	----	----	----	----	51
Flounder	18	3,986	186	6,731	10,454	19,632	4,542	2,543	15,882	26,847	32,646	1,490	124,957
Flounder, arrowtooth	950	786	----	----	----	----	----	----	----	500	210	----	2,446
Halibut, California	----	----	----	----	----	25	34	12	----	----	----	----	71
Halibut, Pacific	----	----	----	----	----	25	----	----	----	----	----	----	25
Lingcod	19,674	23,850	23,263	50,330	36,932	169,934	212,678	265,976	159,736	106,402	28,911	11,905	1,109,591
Perch	2,886	6,007	6,170	19,965	----	----	8,002	15,183	5,785	6,332	1,967	669	72,966
Rockfish	204,169	348,163	337,741	357,267	169,344	347,475	465,958	484,353	462,843	663,612	607,692	174,635	4,623,252
Sablefish	177,909	137,978	279,670	158,572	73,610	223,089	215,531	253,595	194,015	180,597	247,149	352,504	2,494,219
Salmon	----	----	----	10	531,712	2,045,513	2,310,527	693,058	50,756	188	----	----	5,631,764
Sanddab	16,058	66,774	16,030	68,983	34,735	63,413	29,455	15,572	26,548	74,647	25,957	2,349	440,521
Shark	34	207	----	----	----	37	----	75	----	----	297	42	692
Skate	----	----	----	464	7,220	3,670	173	----	----	----	----	----	11,527
Smelt	----	----	24	2,701	11,209	40,152	45,279	45,631	19,726	3,144	----	----	167,866
Smelt, whitebait	6,178	6,751	9,983	12,398	22,175	41,811	25,772	15,040	----	----	----	----	140,108
Sole, Dover	355,216	625,966	1,667,923	1,308,688	268,776	1,196,616	1,298,573	1,628,846	1,288,708	857,108	849,287	413,706	11,759,413
Sole, English	38,974	140,520	101,864	180,172	69,978	119,713	98,464	65,451	112,353	170,042	71,718	8,131	1,177,380
Sole, petrale	261,464	212,696	80,026	105,433	46,892	174,100	104,243	76,077	77,337	124,952	68,834	294,899	1,626,953
Sole, rex	88,049	141,556	86,278	97,271	35,373	108,150	92,653	68,394	90,276	87,805	71,892	45,902	1,013,599
Sole, sand	546	647	977	9,376	15,041	35,238	3,764	1,405	3,847	18,777	19,174	843	109,635
Tuna, albacore	----	----	----	----	9,570	----	409,944	2,306,886	280,420	43,978	27,094	1,932	3,079,824
Turbot	----	800	----	583	----	189	----	75	----	26	167	----	1,840
Miscellaneous	----	----	----	----	----	----	19	8	254	----	----	----	281
Miscellaneous (animal food)	10,794	16,627	4,961	7,154	17,669	22,250	44,614	52,368	11,395	8,003	10,492	18,842	225,169
Crustacean:													
Crab, market	25,920	2,813,310	3,108,968	391,544	554,734	405,975	67,532	22,221	----	----	----	1,882,765	9,272,969
Crab, rock	40	320	360	660	120	----	----	240	----	----	----	----	1,740
Shrimp, ocean	----	----	----	----	----	436,402	831,324	885,062	345,976	181,731	----	----	2,680,495

Mollusk:													
Clam, unclassified	----	----	----	----	----	----	----	----	----	----	----	28	28
Octopus	----	178	----	51	44	70	112	80	44	27	22	----	628
Oyster, giant Pacific	65,005	66,653	84,525	73,326	63,641	35,425	24,111	24,351	28,338	65,692	80,600	80,848	692,515
Squid	----	----	----	----	----	----	----	197	----	----	----	----	197
Total pounds	1,273,884	4,613,775	5,808,949	2,851,679	1,979,229	5,488,904	6,293,355	6,922,699	3,174,239	2,620,800	2,144,109	3,291,490	46,463,112
Waters north of State:													
Fish:													
Flounder	----	----	----	----	----	----	----	----	----	195	470	----	665
Lingcod	12	404	----	287	----	14,311	10,595	15,497	15,021	8,086	446	----	64,659
Perch	----	----	----	----	----	----	490	----	----	----	----	----	490
Rockfish	862	8,052	----	2,402	----	11,305	21,330	47,034	38,317	20,652	6,759	----	156,713
Sablefish	2,495	2,695	----	5,823	----	7,145	12,322	21,591	12,502	16,827	7,349	----	88,749
Salmon	----	----	----	----	----	334	1,049	63	----	----	----	----	1,446
Sanddab	----	404	----	116	----	----	342	----	----	----	----	----	862
Sole, Dover	3,500	4,406	----	26,776	----	88,427	109,837	167,405	179,086	159,326	43,706	----	782,469
Sole, English	----	2,660	----	604	----	1,551	955	1,274	4,040	3,288	504	----	14,876
Sole, petrale	4,143	7,422	----	317	----	2,883	930	1,966	5,217	6,775	858	----	30,511
Sole, rex	554	3,660	----	888	----	4,366	3,575	7,024	8,030	6,531	1,111	----	35,739
Sole, sand	----	----	----	----	----	----	----	----	248	497	476	----	1,221
Miscellaneous (animal food)	----	----	----	4,113	----	10,933	45,619	28,341	58,036	32,154	3,561	----	182,757
Crustacean:													
Shrimp, ocean	----	----	----	----	----	----	111,231	124,466	136,832	24,749	----	----	397,278
Mollusk:													
Octopus	----	----	----	----	----	----	----	74	20	107	----	----	201
Total pounds	11,566	29,703	----	41,326	----	141,255	318,275	414,735	457,349	279,187	65,240	----	1,758,636
Grand total	**1,285,450**	**4,643,478**	**5,808,949**	**2,893,005**	**1,979,229**	**5,630,159**	**6,611,630**	**7,337,434**	**3,631,588**	**2,899,987**	**2,209,349**	**3,291,490**	**48,221,748**

TABLE 10

Monthly Landings of Commerical Fishing Boats in the San Francisco Area During 1971 *

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Anchovy	----	----	8,000	19,835	8,610	22,139	27,500	41,400	64,694	62,410	50,900	13,200	318,688
Blackfish, Sacramento	62,005	51,456	90,253	17,475	23,170	9,450	----	----	----	2,992	34,190	29,267	320,258
Bonito, Pacific	----	----	----	----	----	----	----	----	542	4,392	238	----	5,172
Cabezon	----	127	----	----	----	----	----	8	----	----	----	----	135
Carp	95,475	37,480	32,960	8,249	16,036	3,950	----	----	----	4,027	32,850	40,843	271,870
Croaker, white	160	115	320	205	----	472	224	482	2,191	348	180	57	4,754
Flounder	15,975	22,771	15,270	3,965	265	9,092	3,048	3,443	3,045	19,274	9,720	14,440	120,308
Flounder, arrowtooth	----	----	----	----	----	----	----	----	215	----	----	----	215
Hake, Pacific	----	----	----	----	----	----	12,060	3,715	----	----	----	----	15,775
Halibut, California	7,295	4,849	5,137	275	400	91	632	4,740	16,893	7,794	5,926	9,632	63,664
Herring, Pacific	6,400	8,266	3,970	----	----	----	----	----	----	----	----	----	18,636
Hitch	----	----	----	----	----	----	----	----	----	1,200	----	----	1,200
Lingcod	9,290	7,270	19,401	27,384	38,281	80,259	60,315	85,496	33,454	19,995	25,300	23,436	429,881
Mackerel, jack	----	----	----	----	----	----	12	780	259	130	----	----	1,181
Mudsucker, longjaw	49	187	59	168	224	90	225	362	46	324	127	87	1,948
Perch	4,837	4,442	9,673	7,645	10	----	825	2,167	2,588	2,574	5,362	4,958	45,081
Rockfish	58,885	80,055	82,263	94,121	153,649	121,470	94,596	104,064	99,765	72,357	227,470	57,294	1,245,989
Sablefish	34,791	34,880	39,481	40,980	81,057	50,126	25,706	54,877	111,196	58,216	62,137	48,332	641,779
Salmon	----	----	----	985	254,168	377,097	818,782	516,353	145,411	----	----	----	2,112,796
Sanddab	18,531	13,947	35,426	31,260	16,770	14,640	19,050	30,115	19,080	21,150	25,375	7,560	252,904
Shark	3,176	1,324	3,447	800	3,376	760	634	284	4,499	8,694	10,420	8,889	46,303
Skate	680	----	550	100	----	----	----	----	900	200	700	1,415	4,545
Smelt	85	7,469	2,956	3,132	6,114	13,683	12,776	1,128	1,632	170	30	----	49,175
Smelt, whitebait	----	116	937	395	1,106	3,634	456	----	----	----	----	----	6,644
Sole, Dover	107,593	179,830	121,085	172,688	170,187	78,779	71,866	173,119	285,913	104,906	87,658	71,367	1,624,991
Sole, English	152,902	83,039	65,749	39,197	27,180	69,346	61,056	109,023	104,990	79,627	104,029	152,372	1,048,510
Sole, petrale	112,868	40,953	98,460	120,453	264,707	112,218	92,861	214,823	83,920	71,392	113,604	53,298	1,379,557
Sole, rex	37,249	29,798	29,455	13,002	8,623	7,980	21,038	27,245	25,620	19,100	20,510	20,430	260,050
Sole, sand	15,130	15,070	10,100	1,400	70	26,195	620	3,265	3,565	20,265	24,110	24,635	144,425
Sole, miscellaneous	----	----	----	----	----	----	----	13	----	----	----	----	13

Tuna, albacore	----	----	----	----	----	----	125,228	2,248,115	4,270,386	332,645	19,466	----	6,995,840
Turbot	55	565	780	----	----	270	305	----	375	745	350	995	4,440
Frog	----	----	32	18	----	12	----	302	2,860	4,002	1,220	----	8,446
Miscellaneous	----	----	----	----	2	2	3	23	2	28	1	255	316
Miscellaneous (animal food)	----	----	----	----	2,660	3,350	----	----	----	----	----	----	6,010
Crustacean:													
Crab, market	86,389	50,718	35,601	2,201	1,832	12,808	----	----	----	----	123,027	71,906	384,482
Crayfish	----	----	57	----	16,587	28,257	48,725	41,738	1,524	539	460	79	137,966
Shrimp, bay	1,358	341	180	----	----	----	----	20	----	----	----	----	1,899
Shrimp, ocean	----	----	----	----	----	700	----	----	----	----	----	----	700
Sea star	----	----	----	----	----	----	----	----	----	450	----	----	450
Mollusk:													
Abalone	2,350	----	2,775	1,730	2,709	1,460	2,415	75	6,391	2,036	1,579	1,596	25,116
Clam, unclassified	----	----	20	10	10	----	----	20	10	----	10	40	120
Octopus	32	----	45	75	125	40	85	150	105	----	----	----	657
Oyster, eastern	1,520	1,028	1,260	1,143	1,176	797	608	1,386	1,721	914	1,166	1,133	13,852
Oyster, giant Pacific	23,440	17,383	18,850	13,207	14,577	20,198	20,486	18,449	15,511	15,309	14,510	6,465	198,385
Grand total	**858,520**	**693,479**	**734,552**	**622,098**	**1,113,681**	**1,069,365**	**1,522,137**	**3,687,180**	**5,309,303**	**938,205**	**1,002,625**	**663,981**	**18,215,126**

* Includes Sacramento area landings.

TABLE 11

Monthly Landings of Commercial Fishing Boats in the Monterey Area During 1971

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Anchovy	242,250	30,000	1,000	1,400	21,500	----	36,700	158,700	806,240	1,109,850	----	1,400	2,409,040
Bonito, Pacific	----	----	----	----	----	----	----	----	2,885	12,137	1,755	----	16,777
Cabezon	22	----	180	215	443	25	----	20	87	667	678	233	2,570
Croaker, white	1,255	2,783	1,327	537	2,726	21,603	16,321	21,010	7,248	5,785	11,755	6,842	99,192
Flounder	----	1,350	1,192	5,999	1,862	2,657	615	3,249	11,547	4,163	259	----	32,893
Hake, Pacific	----	----	----	----	----	600	----	----	----	----	----	----	600
Halibut, California	----	303	153	568	180	1,712	996	22,368	16,396	4,925	161	50	47,812
Herring, Pacific	----	----	----	----	49,175	40,575	25,950	106,600	----	----	----	----	222,300
Lingcod	7,556	9,028	13,928	32,090	43,470	60,457	34,840	8,121	5,775	18,705	15,930	14,399	264,299
Mackerel, jack	47,184	44,930	8,328	7,655	13,660	5,114	891	9,435	16,209	6,440	3,900	----	163,746
Perch	57	100	8,139	19,618	----	----	734	----	180	154	119	73	29,174
Pompano, Pacific	----	----	----	321	1,570	371	253	795	1,274	25	33	----	4,642
Rockfish	156,143	171,955	443,403	422,345	249,784	263,363	105,323	59,633	146,053	235,091	12,889	132,301	2,398,283
Sablefish	238,672	119,551	186,634	71,325	69,655	138,189	56,370	26,644	43,980	84,753	12,581	149,341	1,197,695
Salmon	----	----	----	185	100,448	60,111	76,666	26,676	6,548	138	----	----	270,772
Sanddab	1,589	5,871	23,462	8,711	11,559	13,608	2,138	6,825	11,176	3,007	98	1,145	89,189
Seabass, white	----	----	----	46	105	81	----	193	1,457	402	----	----	2,284
Shark	329	318	119	144	217	2,518	1,005	1,259	1,031	1,304	227	700	9,171
Skate	85	2,070	4,850	5,765	7,280	5,450	3,255	6,462	6,145	2,253	----	1,365	44,980
Smelt	3,968	14	1,418	2,855	2,278	4,520	730	7,155	405	26	92	----	23,461
Sole, Dover	1,725	935	5,450	1,150	7,290	14,740	3,030	9,205	2,100	7,500	----	6,610	59,735
Sole, English	30,225	44,319	64,230	28,665	28,370	38,505	6,490	8,940	29,649	20,800	----	11,480	311,673
Sole, petrale	26,290	31,317	40,705	20,620	17,900	25,375	6,580	11,960	12,730	14,110	----	31,750	239,337
Sole, rex	17,135	17,750	46,440	1,820	1,545	90	----	340	3,080	9,490	----	11,035	108,725
Sole, sand	----	1,025	730	3,630	1,410	270	45	----	160	----	----	----	7,270
Sole, miscellaneous	----	65	10	144	17	215	982	1,575	1,702	907	----	----	5,617
Tuna, albacore	----	----	----	----	----	----	61,087	3,888,671	5,304,041	1,044,422	37,649	----	10,335,870
Turbot	----	----	----	----	----	----	----	15	----	----	----	----	15
Frog	----	----	----	----	----	----	----	----	----	580	425	415	1,420
Miscellaneous	----	----	----	50	----	----	----	----	3	----	21	----	74
Miscellaneous (animal food)	----	----	----	----	1,400	----	----	----	----	----	----	----	1,400

Crustacean:													
Crab, market	148	248	119	8	----	----	----	----	----	16	14	553
Crab, rock	229	109	68	---	---	---	---	---	---	70	48	524
Prawn, spot	2,236	1,793	672	---	---	---	---	---	1,354	3,339	2,363	11,747
Mollusk:												
Abalone	----	----	----	----	----	----	167	----	----	----	----	167
Clam, unclassified	5	12	----	----	----	----	----	----	----	----	----	17
Mussel	188	275	150	50	----	----	----	----	----	275	50	988
Octopus	----	----	----	---	----	----	----	----	----	121	197	318
Squid	----	----	----	---	2,448,330	8,143,818	3,148,125	171,725	1,908,200	380,400	445,825	16,646,423
Grand total	777,291	486,121	852,707	635,916	3,082,174	8,843,967	3,589,126	4,557,743	8,346,301	2,969,388	548,218	371,801	35,060,753

TABLE 12

Monthly Landings of Commercial Fishing Boats in the Santa Barbara Area During 1971

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Anchovy	3,697,900	17,259	4,600	18,800	819,800	29,600	47,000	430,600	1,093,950	4,823,380	3,607,950	5,130,800	19,721,639
Barracuda, California	6	4	----	----	----	----	----	----	169	41	152	----	372
Bonito, Pacific	86,932	40,913	----	----	----	----	232	228	147,546	71,738	203,726	68,480	619,795
Cabezon	538	649	372	4	22	8	----	51	----	----	86	----	1,730
Croaker, white	52	----	----	61	135	----	----	----	----	----	----	----	248
Flounder	583	3,304	7,132	2,374	545	----	----	----	30	227	818	----	15,013
Hake, Pacific	----	----	----	----	425	17,885	----	----	----	----	----	----	18,310
Halibut, California	16,836	7,981	6,212	5,316	15,814	18,433	20,247	34,428	4,652	1,047	1,635	1,597	134,198
Lingcod	3,123	7,414	13,496	20,313	18,280	16,363	18,832	12,418	25,520	28,847	38,760	22,491	225,857
Mackerel, jack	----	54,968	18,800	403,550	43,000	399,350	118,700	41,100	----	----	997,250	219,180	2,295,898
Mackerel, Pacific	71	----	----	----	----	----	----	----	----	----	----	----	71
Perch	3,242	1,941	1,801	1,014	63	42	1,122	781	296	532	280	303	11,417
Pompano, Pacific	----	165	255	118	940	----	----	----	----	----	----	----	1,478
Rockfish	132,190	105,084	136,531	173,844	178,333	236,562	117,930	100,957	179,900	207,588	185,565	161,278	1,915,762
Sablefish	550	----	130	----	----	150	----	----	----	----	----	----	830
Salmon	----	----	----	2,239	17,043	30,461	21,055	14,523	14,779	----	----	----	100,100
Sanddab	----	----	237	99	----	810	80	----	----	60	----	----	1,286
Sea bass, giant	75	----	----	----	115	24	82	580	----	----	----	----	876
Seabass, white	1,487	4,024	4,617	487	1,806	3,097	6,285	16,697	24,503	95,955	6,532	1,395	166,885
Shark	2,771	4,214	1,635	2,642	6,580	4,283	3,342	3,287	3,412	3,124	4,332	4,713	44,335
Sheephead, California	----	107	33	----	----	17	17	22	35	----	27	152	410
Skate	----	----	91	----	66	24	----	----	----	----	----	----	181
Smelt	----	----	----	74	----	----	----	----	----	----	----	----	74
Sole, Dover	----	----	----	465	5,760	5,756	2,660	2,660	4,605	205	----	----	22,111
Sole, English	75,489	80,273	54,388	17,111	16,364	13,838	8,065	10,306	27,120	34,180	41,047	31,015	409,196
Sole, petrale	7,390	11,935	20,393	25,803	52,390	33,166	8,987	11,101	43,773	27,413	56,990	112,450	411,791
Sole, rex	7,585	8,005	3,260	2,910	3,592	1,595	180	1,080	3,860	6,610	6,105	4,980	49,762
Sole, sand	13,760	1,910	6,235	3,645	657	----	----	340	370	----	1,224	1,725	29,866
Sole, miscellaneous	752	966	82	20	706	129	584	892	20	566	1,683	2,066	8,466
Swordfish	----	----	----	----	----	----	----	469	11,702	16,178	----	----	28,349
Tuna, albacore	----	----	----	----	----	----	78,286	759,815	1,614,198	689,039	245,038	----	3,386,376
Turbot	405	983	4,372	3,470	7,390	1,877	90	----	----	----	----	----	18,587
Whitefish, ocean	----	----	----	----	----	----	----	23	----	----	----	----	23
Yellowtail, California	----	----	----	----	----	----	----	13	17	----	----	----	30
Miscellaneous	----	----	----	----	----	----	----	----	----	----	30	----	30
Miscellaneous (animal food)	54,055	48,375	29,640	47,635	88,880	105,915	54,575	21,995	25,780	31,327	41,170	24,480	573,827

Crustacean:													
Crab, market	----	108	936	1,939	1,173	20	----	----	24	----	36	25	4,261
Crab, rock	22,986	22,465	20,527	16,411	16,016	15,252	9,265	7,758	3,480	2,514	6,293	16,886	159,853
Lobster, spiny	14,991	11,901	5,268	----	----	----	----	----	----	16,257	16,555	13,391	78,363
Prawn, spot	----	----	----	----	----	26	----	----	----	----	----	----	26
Shrimp, ocean	----	----	----	----	----	2,110	----	----	----	----	----	----	2,110
Echinoderm:													
Sea urchin	----	----	----	----	----	200	----	----	----	----	----	----	200
Mollusk:													
Abalone	261,140	----	79,927	83,558	132,306	151,689	159,414	----	111,125	136,770	136,733	148,664	1,401,326
Oyster, giant Pacific	10,871	11,743	10,049	6,923	7,396	3,853	----	955	2,872	4,080	8,116	7,216	74,074
Squid	2,634,560	1,189,600	40,200	1,730,780	195,550	481,480	364,100	37,165	10,300	----	----	----	6,683,735
Total pounds	7,050,340	1,636,291	471,219	2,571,605	1,631,147	1,574,015	1,014,130	1,510,244	3,354,038	6,197,678	5,608,133	5,973,287	38,619,127
Waters south of State:													
Fish:													
Tuna, albacore	----	----	----	----	----	----	----	16,550	----	----	----	----	16,550
Total pounds	----	----	----	----	----	----	----	16,550	----	----	----	----	16,550
Grand total	**7,050,340**	**1,636,291**	**471,219**	**2,571,605**	**1,631,147**	**1,574,015**	**1,041,130**	**1,526,794**	**3,354,038**	**6,197,678**	**5,608,133**	**5,973,287**	**38,635,677**

TABLE 13

Monthly Landings and Shipments of Commercial Fish Into the Los Angeles Area During 1971

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Anchovy	30,339,280	799,516	330,320	873,944	7,767,354	204,648	90,053	150,506	120,056	24,605,644	782,355	1,191,698	67,255,374
Barracuda, California	----	----	----	368	799	4,195	770	196	214	----	2,456	----	8,998
Blacksmith	5,540	----	----	24,000	----	10,000	----	----	----	2,800	----	----	42,340
Bonito, Pacific	213,543	131,716	87,621	5,869	17,512	20,585	4,765	1,241,207	4,064,451	1,662,800	748,702	549,852	8,748,623
Carp	454	921	1,989	1,968	883	551	----	----	----	----	----	----	6,766
Croaker, white	37,605	13,524	80,938	14,745	4,749	2,143	934	2,460	6,426	1,700	5,835	55,969	227,028
Flounder	----	----	8	----	----	----	----	----	----	----	----	----	8
Flyingfish	----	----	----	----	20,105	60,351	41,570	38,240	----	----	----	----	160,266
Halfmoon	----	----	----	----	2,466	3,849	979	1,915	1,301	16	----	----	10,526
Halibut, California	2,846	3,740	8,698	2,656	16,069	30,800	8,984	1,151	794	428	1,864	424	78,454
Lingcod	68	----	17	40	----	33	----	----	----	20	115	2,324	2,617
Mackerel, jack	2,531,142	2,325,750	8,577,315	4,748,457	1,369,055	4,626,341	2,209,930	6,520,715	2,212,345	1,740,006	15,568,344	4,982,453	57,411,853
Mackerel, Pacific	1,055	85	4,142	322	1,205	766	12,580	125	20,394	4,679	49,628	58,550	153,531
Opaleye	----	----	----	----	547	734	78	1,574	74	----	210	----	3,217
Perch	286	396	1,170	1,590	1,536	6,579	1,485	762	----	143	340	520	14,807
Pompano, Pacific	27,399	6,569	63,044	51,566	6,466	1,685	725	1,490	8,409	1,081	4,785	2,579	175,798
Rockfish	45,454	43,313	51,573	19,103	37,469	35,576	13,045	14,507	18,901	37,820	74,515	43,960	435,236
Sablefish	----	----	----	----	----	381	225	125	----	----	----	----	731
Sanddab	----	50	----	----	----	----	43	288	----	72	----	15	468
Sardine	6,078	9,142	6,633	684	2,273	8,935	37,785	46,375	22,249	8,727	13,805	1,000	163,686
Sargo	----	----	11	----	----	180	15	----	----	----	----	----	206
Sculpin	----	----	840	13	25	1,008	----	----	----	----	----	----	1,886
Sea bass, giant	----	165	----	195	272	2,558	1,218	170	278	----	----	----	4,856
Seabass, white	4,302	9,107	781	1,099	1,130	34,498	12,800	130,339	23,646	1,741	1,214	13,341	233,998
Shark	3,697	5,913	1,491	5,385	15,129	20,205	17,987	8,995	9,506	10,839	11,042	1,972	112,161
Sheephead, California	161	872	466	103	574	1,098	1,519	525	62	13	590	30	6,013
Smelt	1,235	587	3,530	5,735	3,620	7,695	385	10	20,150	33,700	30,270	900	107,817
Sole, English	----	----	----	----	----	----	----	----	----	----	----	2,380	2,380
Sole, petrale	----	----	----	----	----	----	----	----	----	----	----	16,235	16,235
Sole, miscellaneous	----	----	----	----	30	----	----	154	----	----	----	----	184

Swordfish	----	----	----	----	----	260	825	4,159	22,852	21,981	3,085	380	53,542
Tuna, albacore	----	----	----	----	----	----	59,794	424,775	2,112,872	917,356	259,204	2,146	3,776,147
Tuna, bluefin	----	----	----	----	----	----	57,965	124,531	62,471	223,299	----	2,882	471,148
Tuna, skipjack	----	----	----	----	----	----	----	----	----	4,400	----	65	4,465
Tuna, yellowfin	767	185	----	----	----	----	----	----	14,350	128,999	----	----	144,301
Whitefish, ocean	----	----	----	----	----	----	----	5	45	----	----	----	50
Yellowtail, California	781	----	35	----	282	2,018	637	302	105	----	----	175	4,335
Miscellaneous	----	----	----	----	----	80	31	----	----	----	22	----	133
Crustacean:													
Crab, rock	25,155	24,449	25,589	29,233	25,379	29,617	38,291	42,041	37,997	26,214	19,728	36,603	360,296
Lobster, spiny	5,134	9,996	2,656	----	----	----	----	----	----	18,890	20,732	16,145	73,553
Mollusk:													
Abalone	239,164	554	120,979	55,760	112,579	81,576	99,175	----	43,277	46,987	45,173	42,240	887,464
Squid	2,910,200	1,434,200	636,150	842,000	1,055,833	593,900	361,300	147,665	98,700	50,560	48,000	6,600	8,185,108
Total pounds	36,401,346	4,820,750	10,005,996	6,684,835	10,463,341	5,792,845	3,075,893	8,905,307	8,921,925	29,550,915	17,692,014	7,031,438	149,346,605
Waters north of State:													
Fish:													
Tuna, albacore	----	----	----	----	----	----	----	----	337,119	----	----	----	337,119
Total pounds	----	----	----	----	----	----	----	----	337,119	----	----	----	337,119
Waters south of State:													
Fish:													
Bonito, Pacific	1,228	23,447	49,449	921	585,214	544,055	1,562,493	3,640,678	1,062,441	406,265	242,880	243,967	8,363,038
Dolphinfish	----	----	----	----	----	----	----	----	----	----	730	----	730
Halibut, California	65	----	----	----	----	----	10	----	----	----	249	85	409
Lingcod	----	----	----	----	----	----	----	----	----	----	----	540	540
Perch	----	----	----	192	----	----	----	----	----	----	----	----	192
Rockfish	----	2,435	1,950	3,558	2,475	370	----	----	----	240	785	4,167	15,980
Sargo	----	----	----	81	----	----	----	----	----	----	----	----	81
Sea bass, giant	5,809	3,723	8,702	11,013	596	2,876	----	----	17,250	21,683	23,119	4,766	99,537
Seabass, white	13,182	12,384	50,724	49,540	1,334	11,916	57	----	----	5,419	9,643	33,254	187,453
Shark	7,600	----	260	----	918	----	----	----	----	----	----	----	8,778
Sheephead, California	----	----	----	----	----	----	57	----	----	----	----	----	57
Tuna, albacore	----	----	----	----	----	----	1,127,376	961,532	177,651	22,975	480	----	2,290,014
Tuna, bigeye	----	----	51,600	48,533	----	----	----	62,185	----	----	----	1,424,466	1,586,784
Tuna, bluefin	----	49,365	----	----	542,760	2,669,906	1,692,946	1,830,652	1,315,292	1,888,407	400,705	17,935	10,407,968
Tuna, skipjack	476,659	4,551,595	10,162,677	10,536,756	11,348,538	17,201,158	12,245,952	2,355,733	490,241	914,043	1,110,412	3,078,895	74,472,659

TABLE 13—Continued

Monthly Landings and Shipments of Commercial Fish Into the Los Angeles Area During 1971—Continued

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Waters south of State:													
Fish:													
Tuna, yellowfin	3,436,315	19,580,907	13,844,650	17,346,456	11,604,420	11,453,766	7,841,336	3,533,157	6,127,370	8,183,699	8,365,740	10,291,330	121,609,146
Wahoo	----	----	----	----	----	----	----	----	----	----	230	----	230
Whitefish, ocean	183	----	----	251	----	295	----	----	----	----	----	293	1,022
Yellowtail, California	13,056	17,922	10,504	5,992	5,368	5,376	2,886	134,325	103,695	1,072	9,656	18,607	328,459
Total pounds	3,954,097	24,241,778	24,180,516	28,003,293	24,091,623	31,889,718	24,473,113	12,518,262	9,293,940	11,443,803	10,164,629	15,118,305	219,373,077
African waters:													
Fish:													
Tuna, skipjack	----	----	----	----	----	----	----	----	----	----	1,534,362	2,003,810	3,538,172
Tuna, yellowfin	----	----	----	----	----	----	----	----	----	----	566,576	125,888	692,464
Total pounds	----	----	----	----	----	----	----	----	----	----	2,100,938	2,129,698	4,230,636
SHIPMENTS:*													
Fish:													
Tuna, albacore	1,991,391	1,632,747	1,971,184	1,791,395	919,321	411,977	1,107,381	3,111,162	255,424	2,578,477	6,660,580	7,386,174	29,817,213
Tuna, bigeye	41,839	----	----	----	22,695	----	485	----	----	----	----	----	65,019
Tuna, bluefin	519,483	200,203	655,644	----	----	273,683	147,545	----	8,500	11,684	244,605	400,630	2,461,977
Tuna, skipjack	3,696,819	3,085,962	7,923,349	9,589,372	3,680,693	1,904,615	586,738	1,448,506	846,452	1,844,925	6,946,124	6,846,401	48,399,956
Tuna, skipjack, black	----	----	----	----	----	50,800	5,000	----	----	----	----	----	55,800
Tuna, yellowfin	649,565	779,707	2,755,506	446,014	351,649	858,448	205,020	475,957	301,570	1,770,446	3,436,239	3,492,225	15,522,346
Total pounds	6,899,097	5,698,619	13,305,683	11,826,781	4,974,358	3,499,523	2,052,169	5,035,625	1,411,946	6,205,532	17,287,548	18,125,430	96,322,311
Grand total	**47,254,540**	**34,761,147**	**47,492,195**	**46,514,909**	**39,529,322**	**41,182,086**	**29,601,175**	**26,459,194**	**19,964,930**	**47,200,250**	**47,245,129**	**42,404,871**	**469,609,748**

* For origin of shipments refer to Table 6. Beginning in 1965 only tuna shipments are recorded.

TABLE 14

Monthly Landings and Shipments of Commercial Fish Into the San Diego Area During 1971

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Anchovy	----	79	74	----	----	----	----	----	----	----	----	----	153
Barracuda, California	----	18	269	537	941	4,980	929	180	----	----	----	----	7,854
Bonito, Pacific	2,805	4,683	----	608	378	698	1,321	493,803	578,610	2,330	275	----	1,085,511
Cabezon	----	16	9	----	----	----	----	----	----	----	7	----	32
Croaker, white	560	1,180	843	164	----	29	----	----	----	39	161	197	3,173
Flounder	----	----	----	----	----	46	----	----	----	----	----	----	46
Halfmoon	960	1,688	956	1,474	1,426	1,892	2,458	218	----	423	796	305	12,596
Halibut, California	1,911	1,122	1,885	1,281	1,368	1,275	706	206	145	348	864	1,106	12,217
Lingcod	69	25	73	----	----	183	9	8	22	20	----	----	409
Mackerel, jack	23	230	157	39	----	301	--	8,940	10	----	558	----	10,258
Mackerel, Pacific	----	----	200	30	190	1,110	264	----	50	45	----	199	2,088
Opaleye	----	542	250	367	280	----	204	66	----	----	----	355	2,064
Perch	409	170	206	654	866	1,282	2,175	953	587	2,347	887	275	10,811
Rockfish	36,225	33,005	49,446	19,027	33,991	25,756	6,057	16,685	31,248	25,888	25,018	28,180	330,526
Sablefish	----	----	----	----	460	----	----	----	----	----	----	----	460
Sanddab	----	----	----	7	----	30	71	63	----	----	----	----	171
Sardine	----	----	19,300	38,875	19,350	10,825	15,350	5,350	14,100	7,850	2,950	250	134,200
Sargo	----	----	----	----	----	----	147	----	----	----	----	----	147
Sculpin	5,498	4,145	798	686	146	1,893	5,198	3,999	7,790	4,216	2,781	3,023	40,173
Sea bass, giant	35	----	----	374	309	340	408	264	674	437	37	1,951	4,829
Seabass, white	9,318	5,997	4,457	3,140	11,529	9,667	10,005	52,882	4,339	6,181	22,056	9,174	148,745
Shark	5,911	5,342	3,777	1,316	16,936	22,395	37,711	15,563	26,707	20,637	12,621	10,618	179,534
Sheephead, California	----	43	361	----	91	395	172	103	----	130	580	273	2,148
Smelt	----	8	----	----	----	----	----	----	----	----	----	----	8
Sole, miscellaneous	10	79	162	333	18	----	101	274	37	61	12	22	1,109
Swordfish	----	----	----	----	----	311	1,118	27,859	19,198	18,041	4,555	----	71,082
Tuna, albacore	----	----	----	174	----	38	319,471	127,953	577,729	7,890	14,033	885	1,048,173
Tuna, bluefin	----	----	----	----	----	----	----	----	----	99	----	----	99
Tuna, skipjack	----	----	----	----	----	----	----	----	----	----	----	215	215
Tuna, yellowfin	----	----	----	----	----	----	----	----	----	----	----	700	700
Whitefish, ocean	273	115	260	63	663	124	102	380	86	----	60	----	2,126
Yellowtail, California	2,601	787	92	723	1,795	2,610	631	844	455	5,425	9,125	1,551	26,639
Miscellaneous	----	----	----	----	16	257	11	13	----	24	14	----	335

TABLE 14—Continued

Monthly Landings and Shipments of Commercial Fish Into the San Diego Area During 1971—Continued

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Crustacean:													
Crab, rock	2,849	5,934	2,796	1,620	391	69	57	17	162	1,107	1,010	2,788	18,800
Lobster, spiny	6,938	3,832	2,440	----	----	----	----	----	----	29,215	18,192	11,953	72,570
Miscellaneous crustacean	----	----	----	----	----	----	----	----	----	----	30	----	30
Mollusk:													
Abalone	125,081	325	43,342	38,322	80,443	79,929	78,474	500	31,786	47,269	55,389	50,385	631,245
Squid	----	533	784	276	----	----	----	----	10	----	----	227	1,830
Total pounds	201,476	69,898	132,937	110,090	171,587	166,435	483,150	757,123	1,293,745	180,022	172,011	124,632	3,863,106
Waters north of State:													
Fish:													
Tuna, albacore	----	----	----	----	----	----	8,456	----	----	----	----	----	8,456
Total pounds	----	----	----	----	----	----	8,456	----	----	----	----	----	8,456
Waters south of State:													
Fish:													
Anchovy	----	----	139	----	28	----	----	----	----	----	7	----	174
Barracuda, California	----	----	----	40	----	----	----	----	----	----	----	----	40
Bonito, Pacific	16,294	17,903	45,851	16,782	102,564	271,342	2,472	227,612	467,839	140,688	29,177	91,154	1,429,678
Croaker, white	----	----	----	----	30	----	----	----	----	----	----	----	30
Dolphinfish	----	----	----	----	----	----	----	----	----	----	----	109	109
Halibut, California	11	----	35	----	----	----	----	----	----	----	----	----	46
Lingcod	----	----	----	----	96	----	----	----	----	----	----	----	96
Mackerel, jack	----	----	49	----	----	----	----	----	----	----	----	----	49
Mackerel, Pacific	----	----	----	----	157	----	----	----	----	----	----	----	157
Pompano, Pacific	----	----	13	----	----	----	----	----	----	----	----	----	13
Rockfish	93	49	14,363	1,081	4,191	7,619	94	555	3,256	3,052	8,585	4,067	47,005
Sculpin	----	23	18	----	2,149	27,511	33,104	25,133	1,004	108	35	----	89,085
Sea bass, giant	469	1,054	1,783	965	61	----	----	----	----	----	517	2,311	7,160
Seabass, white	5,834	11,810	30,350	5,878	----	----	316	11,904	1,994	----	5,941	10,492	84,519
Shark	10,043	3,282	962	2,420	----	----	----	----	----	----	2,036	1,618	20,361
Sheephead, California	----	22	----	----	----	19	----	----	----	185	----	----	226
Sole, miscellaneous	----	10	----	----	4	----	----	21	63	4	4	----	106
Swordfish	----	----	----	----	----	----	----	1,360	185	----	----	----	1,545
Tuna, albacore	----	----	----	----	----	53	2,603,414	1,759,218	154,929	251,388	61,574	11,789	4,842,365
Tuna, bigeye	----	52,086	44,262	----	----	----	----	----	----	----	----	122,906	219,254

Tuna, bluefin	----	----	----	----	259,071	1,142,720	1,390,847	1,777,288	1,039,719	350,971	45,205	365,930	6,371,751
Tuna, skipjack	53,459	1,658,034	3,448,998	4,762,994	1,638,473	5,621,562	3,129,428	908,623	671,933	227,947	407,229	833,447	23,362,127
Tuna, yellowfin	876,110	5,300,513	5,671,147	4,625,308	383,357	2,949,667	1,966,886	506,937	979,354	1,300,112	2,726,787	1,208,322	28,494,500
Whitefish, ocean	----	----	----	----	485	----	----	----	----	----	----	----	485
Yellowtail, California	2,205	8,343	7,634	140	1,513	40	1,016	193	18	455	6,286	3,214	31,057
Crustacean:													
Crab, rock	----	----	1,519	----	----	----	----	----	----	----	----	----	1,519
Mollusk:													
Squid	----	----	----	----	66	41	----	----	8	----	----	----	115
Total pounds	964,518	7,053,129	9,267,123	9,415,608	2,392,245	10,020,574	9,127,577	5,218,844	3,320,302	2,274,910	3,293,383	2,655,359	65,003,572
SHIPMENTS:*													
Fish:													
Tuna, albacore	----	----	65,520	----	----	65,456	385,519	----	----	----	221,413	1,458,734	2,196,642
Tuna, bluefin	----	----	----	----	----	----	----	----	115,088	----	----	----	115,088
Tuna, skipjack	----	----	152,768	559,893	278,880	16,377	----	160,739	310,707	111,204	1,398,968	2,175,018	5,164,554
Tuna, yellowfin	159,533	----	----	----	203,142	----	----	203,099	517,171	----	19,085	799,312	1,901,342
Total pounds	159,533	----	218,288	559,893	482,022	81,833	385,519	363,838	942,966	111,204	1,639,466	4,433,064	9,377,626
Grand total	**1,325,527**	**7,123,027**	**9,618,348**	**10,085,591**	**3,045,854**	**10,268,842**	**10,004,702**	**6,339,805**	**5,557,013**	**2,566,136**	**5,104,860**	**7,213,055**	**78,252,760**

* For origin of shipments refer to Table 6. Beginning in 1965 only tuna shipments are recorded.

TABLE 15

Value of Landings and Shipments of Commercial Fish Into California by Area, 1971

Species	Eureka	San Francisco*	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS							
Fish:							
Anchovy	----	318,688	2,409,040	19,721,639	67,255,374	327	89,705,068
	----	$35,056	$29,872	$268,214	$759,986	$54	$1,093,182
Barracuda, California	----	----	----	372	8,998	7,894	17,264
	----	----	----	$129	$3,015	$2,454	$5,598
Blackfish, Sacramento	----	320,258	----	----	----	----	320,258
	----	$104,980	----	----	----	----	$104,980
Blacksmith	----	----	----	----	42,340	----	42,340
	----	----	----	----	$965	----	$965
Bonito, Pacific	390	5,172	16,777	619,795	17,111,661	2,515,189	20,268,984
	$66	$321	$933	$48,902	$1,558,873	$232,152	$1,841,247
Cabezon	51	135	2,570	1,730	----	32	4,518
	$2	$20	$210	$152	----	$4	$388
Carp	----	271,870	----	----	6,766	----	278,636
	----	$36,919	----	----	$970	----	$37,889
Croaker, white	----	4,754	99,192	248	227,028	3,203	334,425
	----	$524	$6,923	$25	$16,371	$386	$24,229
Dolphinfish	----	----	----	----	730	109	839
	----	----	----	----	$126	$27	$153
Flounder	125,622	120,308	32,893	15,013	8	46	293,890
	$6,947	$8,542	$3,515	$1,492	$2	$12	$20,510
Flounder, arrowtooth	2,446	215	----	----	----	----	2,661
	$157	$9	----	----	----	----	$166
Flyingfish	----	----	----	----	160,266	----	160,266
	----	----	----	----	$23,976	----	$23,976
Hake, Pacific	----	15,775	600	18,310	----	----	34,685
	----	$686	$9	$366	----	----	$1,061
Halfmoon	----	----	----	----	10,526	12,596	23,122
	----	----	----	----	$2,623	$2,947	$5,570
Halibut, California	71	63,664	47,812	134,198	78,863	12,263	336,871
	$25	$18,564	$16,514	$54,859	$30,599	$5,691	$126,252
Halibut, Pacific	25	----	----	----	----	----	25
	$10	----	----	----	----	----	$10
Herring, Pacific	----	18,636	222,300	----	----	----	240,936
	----	$6,597	$12,137	----	----	----	$18,734
Hitch	----	1,200	----	----	----	----	1,200
	----	$336	----	----	----	----	$336
Lingcod	1,174,250	429,881	264,299	225,857	3,157	505	2,097,949
	$113,314	$35,592	$29,178	$22,451	$362	$59	$200,956
Mackerel, jack	----	1,181	163,746	2,295,898	57,411,853	10,307	59,882,985
	----	$65	$9,759	$91,836	$2,313,697	$544	$2,415,901
Mackerel, Pacific	----	----	----	71	153,531	2,245	155,847
	----	----	----	$4	$7,230	$328	$7,562
Mudsucker, longjaw	----	1,948	----	----	----	----	1,948
	----	$3,766	----	----	----	----	$3,766
Opaleye	----	----	----	----	3,217	2,064	5,281
	----	----	----	----	$672	$282	$954
Perch	73,456	45,081	29,174	11,417	14,999	10,811	184,938
	$14,262	$15,154	$4,997	$3,059	$3,028	$2,249	$42,749
Pompano, Pacific	----	----	4,642	1,478	175,798	13	181,931
	----	----	$2,610	$361	$40,679	$3	$43,653
Rockfish	4,779,965	1,245,989	2,398,283	1,915,762	451,216	377,531	11,168,746
	$306,455	$97,401	$209,969	$155,026	$92,709	$80,328	$941,888
Sablefish	2,582,968	641,779	1,197,695	830	731	460	4,424,463
	$178,999	$32,538	$78,448	$33	$92	$46	$290,156
Salmon	5,633,210	2,112,796	270,772	100,100	----	----	8,116,878
	$3,042,740	$1,450,841	$189,770	$73,623	----	----	$4,756,974
Sanddab	441,383	252,904	89,189	1,286	468	171	785,401
	$46,698	$27,719	$8,705	$64	$99	$46	$83,331
Sardine	----	----	----	----	163,686	134,200	297,886
	----	----	----	----	$35,160	$33,550	$68,710
Sargo	----	----	----	----	287	147	434
	----	----	----	----	$66	$15	$81
Sculpin	----	----	----	----	1,886	129,258	131,144
	----	----	----	----	$693	$41,402	$42,095
Sea bass, giant	----	----	----	876	104,393	11,989	117,258
	----	----	----	$202	$23,947	$3,190	$27,339
Seabass, white	----	----	2,284	166,885	421,451	233,264	823,884
	----	----	$1,002	$62,598	$163,987	$99,977	$327,564
Shark	692	46,303	9,171	44,335	120,939	199,895	421,335
	$49	$2,426	$574	$5,629	$16,980	$37,982	$63,640
Sheephead, California	----	----	----	410	6,070	2,374	8,854
	----	----	----	$48	$607	$352	$1,007
Skate	11,527	4,545	44,980	181	----	----	61,233
	----	$117	$1,007	$15	----	----	$1,139
Smelt	167,866	49,175	23,461	74	107,817	8	348,401
	$13,281	$5,802	$3,204	$7	$5,785	$1	$28,080
Smelt, whitebait	140,108	6,644	----	----	----	----	146,752
	$15,594	$817	----	----	----	----	$16,411
Sole, Dover	12,541,882	1,624,991	59,735	22,111	----	----	14,248,719
	$1,053,518	$119,112	$3,751	$1,793	----	----	$1,178,174

TABLE 15—Continued

Value of Landings and Shipments of Commercial Fish Into California by Area, 1971—Continued

Species	Eureka	San Francisco*	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Sole, English	1,192,256	1,048,510	311,673	409,196	2,380	----	2,964,015
	$130,195	$112,505	$33,474	$39,364	$286	----	$315,824
Sole, petrale	1,657,464	1,379,557	239,337	411,791	16,235	----	3,704,384
	$273,812	$225,419	$40,902	$67,739	$2,760	----	$610,632
Sole, rex	1,049,338	260,050	108,725	49,762	----	----	1,467,875
	$121,092	$30,842	$11,797	$5,693	----	----	$169,424
Sole, sand	110,856	144,425	7,270	29,866	----	----	292,417
	$12,738	$17,865	$921	$4,178	----	----	$35,702
Sole, miscellaneous	----	13	5,617	8,466	184	1,215	15,495
	----	$2	$594	$1,041	$24	$343	$2,004
Swordfish	----	----	----	28,349	53,542	72,627	154,518
	----	----	----	$15,272	$27,033	$43,859	$86,164
Tuna, albacore	3,079,824	6,995,840	10,335,870	3,402,926	6,403,280	5,898,994	36,116,734
	$893,764	$2,060,975	$3,049,081	$1,004,544	$2,018,314	$1,849,925	$10,876,603
Tuna, bigeye	----	----	----	----	1,586,784	219,254	1,806,038
	----	----	----	----	$332,907	$45,714	$378,621
Tuna, bluefin	----	----	----	----	10,879,116	6,371,850	17,250,966
	----	----	----	----	$2,263,945	$1,274,370	$3,538,315
Tuna, skipjack	----	----	----	----	78,015,296	23,362,342	101,377,638
	----	----	----	----	$14,339,212	$4,289,326	$18,628,538
Tuna, yellowfin	----	----	----	----	122,445,911	28,495,200	150,941,111
	----	----	----	----	$25,517,727	$5,924,152	$31,441,879
Turbot	1,840	4,440	15	18,587	----	----	24,882
	$191	$232	$2	$1,472	----	----	$1,897
Wahoo	----	----	----	----	230	----	230
	----	----	----	----	$46	----	$46
Whitefish, ocean	----	----	----	23	1,072	2,611	3,706
	----	----	----	$2	$102	$319	$423
Yellowtail, California	----	----	----	30	332,794	57,696	390,520
	----	----	----	$4	$37,673	$7,160	$44,837
Frog	----	8,446	1,420	----	----	----	9,866
	----	$4,699	$1,619	----	----	----	$6,318
Miscellaneous	281	316	74	30	133	335	1,169
	$44	$141	$4	----	$35	$98	$322
Miscellaneous (animal food)	407,926	6,010	1,400	573,827	----	----	989,163
	$8,158	$120	$21	$11,476	----	----	$19,775
Crustacean:							
Crab, market	9,272,969	384,482	553	4,261	----	----	9,662,265
	$2,665,051	$154,024	$247	$2,029	----	----	$2,821,351
Crab, rock	1,740	----	524	159,853	360,296	20,319	542,732
	----	----	$27	$14,468	$51,522	$2,869	$68,886
Crayfish	----	137,966	----	----	----	----	137,966
	----	$55,358	----	----	----	----	$55,358
Lobster, spiny	----	----	----	78,363	73,553	72,570	224,486
	----	----	----	$106,990	$103,445	$98,245	$308,680
Prawn, spot	----	----	11,747	26	----	----	11,773
	----	----	$11,263	$32	----	----	$11,295
Shrimp, bay	----	1,899	----	----	----	----	1,899
	----	$966	----	----	----	----	$966
Shrimp, ocean	3,077,773	700	----	2,110	----	----	3,080,583
	$400,110	$91	----	$253	----	----	$400,454
Miscellaneous crustacean	----	----	----	----	----	30	30
	----	----	----	----	----	$12	$12
Echinoderm:							
Sea star	----	450	----	----	----	----	450
	----	$119	----	----	----	----	$119
Sea urchin	----	----	----	200	----	----	200
	----	----	----	$36	----	----	$36
Mollusk:							
Abalone	----	25,116	167	1,401,326	887,464	631,245	2,945,318
	----	$10,606	$60	$509,728	$247,503	$185,250	$953,147
Clam, unclassified	28	120	17	----	----	----	165
	$4	$300	$5	----	----	----	$309
Mussel	----	----	988	----	----	----	988
	----	----	$17	----	----	----	$17
Octopus	829	657	318	----	----	----	1,804
	$56	$45	$80	----	----	----	$181
Oyster, eastern	----	13,852	----	----	----	----	13,852
	----	$40,725	----	----	----	----	$40,725
Oyster, giant Pacific	692,515	198,385	----	74,074	----	----	964,974
	$602,488	$172,594	----	$64,444	----	----	$839,526
Squid	197	----	16,646,423	6,683,735	8,185,108	1,945	31,517,408
	$10	----	$512,709	$96,914	$150,605	$200	$760,438
Total pounds	48,221,748	18,215,126	35,060,753	38,635,677	373,287,437	68,875,134	582,295,875
Total value	$9,899,830	$4,891,532	$4,275,910	$2,736,567	$50,196,438	$14,265,923	$86,266,200

TABLE 15—Continued

Value of Landings and Shipments of Commercial Fish Into California by Area, 1971—Continued

Species	Eureka	San Francisco*	Monterey	Santa Barbara	Los Angeles	San Diego	Total
SHIPMENTS:†							
Fish:							
Tuna, albacore	----	----	----	----	29,817,213	2,196,642	32,013,855
	----	----	----	----	$11,014,478	$783,762	$11,798,240
Tuna, bigeye	----	----	----	----	65,019	----	65,019
	----	----	----	----	$15,143	----	$15.143
Tuna, bluefin	----	----	----	----	2,461,977	115,088	2,577,065
	----	----	----	----	$645,776	$23,018	$668,794
Tuna, skipjack	----	----	----	----	48,399,956	5,164,554	53,564,510
	----	----	----	----	$10,773,830	$1,167,706	$11,941,536
Tuna, skipjack, black	----	----	----	----	55,800	----	55,800
	----	----	----	----	$4,698	----	$4,698
Tuna, yellowfin	----	----	----	----	15,522,346	1,901,342	17,423,688
	----	----	----	----	$4,267,093	$502,144	$4,769,237
Total pounds	----	----	----	----	96,322,311	9,377,626	105,699,937
Total value	----	----	----	----	$26,721,018	$2,476,630	$29,197,648
GRAND TOTAL POUNDS	48,221,748	18,215,126	35,060,753	38,635,677	469,609,748	78,252,760	687,995,812
GRAND TOTAL VALUE	$9,899,830	$4,891,532	$4,275,910	$2,736,567	$76,917,456	$16,742,553	$115,463,848

* Includes Sacramento area landings.
† For origin of shipments refer to Table 6. Beginning in 1965 only tuna shipments are recorded.

TABLE 16

Value of Landings by Port, Eureka Area, 1971

	Pounds	Value
Eureka		
Salmon	2,066,662	1,144,634
Market crab	3,507,960	1,008,187
Dover sole	7,706,463	647,343
Giant Pacific oyster	692,515	602,488
Albacore	1,792,920	520,305
Rockfish	2,378,870	148,309
Petrale sole	818,839	135,272
Rex sole	649,601	74,963
Sablefish	1,002,900	69,501
English sole	579,625	63,295
Ocean shrimp	292,954	38,084
Lingcod	352,570	34,022
Sanddab	315,907	33,423
Smelt	131,289	10,469
Whitebait smelt	84,325	9,385
Perch	44,749	8,905
Miscellaneous (animal food)	407,926	8,158
Sand sole	21,064	2,420
All other species	34,644	1,326
Port totals	22,881,783	$4,560,489
Crescent City		
Market crab	4,947,055	$1,421,784
Salmon	1,154,159	612,978
Ocean shrimp	2,784,294	361,958
Dover sole	2,311,419	194,159
Albacore	591,012	171,512
Rockfish	1,246,209	82,396
Petrale sole	351,916	58,136
Lingcod	471,829	45,531
English sole	384,511	41,989
Rex sole	198,407	22,896
Sablefish	239,686	16,610
Sanddab	114,272	12,090
Sand sole	89,657	10,302
Flounder	106,717	5,901
Perch	28,021	5,237
Whitebait smelt	38,802	4,319
Smelt	20,982	1,487
All other species	954	108
Port totals	15,079,902	$3,069,393
Fort Bragg		
Salmon	2,024,635	$1,085,608
Dover sole	2,524,000	212,016
Albacore	692,798	201,050
Sablefish	1,340,382	92,888
Market crab	307,237	88,300
Petrale sole	486,709	80,404
Rockfish	1,148,432	75,313
Lingcod	348,849	33,664
English sole	228,120	24,911
Rex sole	201,330	23,233
Whitebait smelt	16,981	1,890
Sanddab	11,204	1,185
All other species	13,819	1,159
Port totals	9,344,496	$1,921,621
Trinidad		
Market crab	510,717	$146,780
Salmon	160,123	77,457
All other species	1,073	311
Port totals	671,913	$224,548

TABLE 16—Continued

Value of Landings by Port, Eureka Area, 1971—Continued

	Pounds	Value
Albion		
Salmon	202,149	$109,944
All other species	8,878	1,065
Port totals	211,027	$111,009
All other ports		
Salmon	25,482	$12,119
All other species	7,145	651
Totals	32,627	$12,770
EUREKA AREA TOTALS	**48,221,748**	**$9,899,830**

TABLE 17

Value of Landings by Port, San Francisco Area, 1971 *

	Pounds	Value
Bodega Bay		
Salmon	794,166	$527,338
Albacore	866,567	255,291
English sole	536,620	57,579
Market crab	111,540	44,683
Petrale sole	243,819	39,840
Rockfish	392,538	34,253
Dover sole	212,112	15,548
Lingcod	180,163	14,917
Rex sole	103,429	12,267
Sablefish	107,190	5,434
Sanddab	47,209	5,174
Smelt	36,085	4,144
Flounder	35,880	2,547
Perch	6,203	1,298
All other species	13,773	1,327
Port totals	3,687,294	$1,021,640
San Francisco		
Albacore	822,538	242,320
Petrale sole	1,108,382	181,110
Salmon	211,329	151,957
Dover sole	1,293,586	94,820
Market crab	177,203	70,988
Rockfish	806,534	59,753
English sole	505,760	54,268
Sablefish	506,091	25,659
Sanddab	202,970	22,246
Lingcod	233,072	19,298
Rex sole	154,186	18,286
Sand sole	141,580	17,513
California halibut	23,307	6,796
Flounder	79,140	5,619
Perch	7,758	2,785
Shark	20,155	1,026
All other species	34,287	1,619
Port totals	6,327,878	$976,063
Sausalito		
Albacore	2,646,163	$779,560
Salmon	224,848	155,044
Anchovy	318,688	35,056
Pacific herring	6,890	2,439
Dover sole	16,806	1,232
All other species	21,029	1,746
Port totals	3,234,424	$975,077
Oakland		
Albacore	2,659,384	$783,454
Salmon	85,972	57,705
Dover sole	102,092	7,483
Sablefish	19,924	1,010
All other species	15,641	1,785
Port totals	2,883,013	$851,437
Point Reyes		
Salmon	439,962	$298,321
Giant Pacific oyster	169,355	147,339
Market crab	44,086	17,661
All other species	3,918	368
Port totals	657,321	$463,689
Princeton		
Salmon	336,482	$245,883
Market crab	43,909	17,590
California halibut	39,959	11,652
Abalone	24,949	10,536
Petrale sole	23,870	3,900

TABLE 17—Continued

Value of Landings by Port, San Francisco Area, 1971 *—Continued

	Pounds	Value
Princeton—Continued		
Rockfish	24,129	$2,039
Lingcod	12,524	1,037
All other species	46,301	3,996
Port totals	552,123	$296,633
Clear Lake		
Sacramento blackfish	317,266	$104,000
Carp	267,843	36,373
Port totals	585,109	$140,373
Tomales Bay		
Eastern oyster	13,852	$40,725
Giant Pacific oyster	29,030	25,255
Pacific herring	11,746	4,158
Smelt	7,799	1,008
All other species	8,303	905
Port totals	70,730	$72,051
Berkeley		
Salmon	17,796	$12,977
Frog	4,614	2,590
Market crab	3,063	1,227
All other species	6,146	2,653
Port totals	31,619	$19,447
Richmond		
Perch	23,659	$8,433
Market crab	2,816	1,128
Salmon	1,456	1,053
All other species	3,722	402
Port totals	31,653	$11,016
All other ports		
Crayfish	136,829	$54,540
Longjaw mudsucker	1,948	3,766
Frog	3,832	2,109
All other species	11,353	3,691
Totals	153,962	$64,106
SAN FRANCISCO AREA TOTALS	**18,215,126**	**$4,891,532**

* Includes Sacramento area landings.

TABLE 18

Value of Landings by Port, Monterey Area, 1971

	Pounds	Value
Moss Landing		
Albacore	7,735,401	$2,281,943
Salmon	217,266	151,863
Squid	1,984,625	61,126
Anchovy	2,341,640	29,036
Pacific herring	207,550	11,332
English sole	88,089	9,461
Rockfish	77,403	9,248
Petrale sole	52,107	8,905
Jack mackerel	79,189	4,720
Sanddab	37,622	3,672
Lingcod	28,722	3,171
Sablefish	43,440	2,845
Smelt	18,843	2,599
White croaker	16,775	1,171
Dover sole	18,470	1,160
All other species	49,955	4,561
Port totals	12,997,097	$2,586,813
Monterey		
Albacore	2,555,857	$753,978
Squid	14,661,798	451,583
Rockfish	2,295,949	198,039
Sablefish	1,151,637	75,432
Petrale sole	187,210	31,994
English sole	223,584	24,013
Lingcod	196,907	21,738
Salmon	30,128	21,393
Rex sole	106,965	11,606
Spot prawn	11,747	11,263
California halibut	25,212	8,708
White croaker	72,186	5,038
Jack mackerel	84,484	5,035
Sanddab	50,401	4,919
Perch	27,984	4,819
Dover sole	41,265	2,591
Anchovy	67,400	836
All other species	69,794	4,329
Port totals	21,860,508	$1,637,314
Santa Cruz		
Salmon	23,378	$16,514
Albacore	44,612	13,160
California halibut	19,792	6,836
Lingcod	38,670	4,269
Rockfish	24,931	2,682
Pacific pompano	3,786	2,129
Flounder	16,600	1,774
All other species	29,959	2,800
Port totals	201,728	$50,164
All other ports		
Frog	1,420	$1,619
Totals	1,420	$1,619
MONTEREY AREA TOTALS	**35,060,753**	**$4,275,910**

TABLE 19

Value of Landings by Port, Santa Barbara Area, 1971

	Pounds	Value
Morro Bay		
Albacore	3,205,012	$946,120
Abalone	191,487	71,218
Rockfish	810,797	67,142
Giant Pacific oyster	74,074	64,444
Salmon	39,592	29,884
Lingcod	145,499	14,463
Petrale sole	84,822	13,953
California halibut	12,902	5,274
Spiny lobster	2,341	3,196
English sole	30,845	2,967
White seabass	5,662	2,124
Miscellaneous (animal food)	94,650	1,893
Perch	6,536	1,732
Rex sole	13,735	1,571
Rock crab	16,374	1,482
Market crab	2,433	1,159
All other species	23,266	2,162
Port totals	4,760,027	$1,230,784
Santa Barbara		
Abalone	1,070,397	$387,668
Rockfish	809,574	63,390
Spiny lobster	39,255	53,595
White seabass	120,222	45,095
Petrale sole	204,237	33,597
Pacific bonito	423,601	33,422
English sole	297,175	28,588
California halibut	44,985	18,390
Rock crab	129,422	11,713
Swordfish	19,276	10,384
Miscellaneous (animal food)	359,550	7,191
Lingcod	36,175	3,596
Rex sole	30,810	3,525
Salmon	4,625	3,421
Shark	16,017	2,053
Albacore	3,679	1,086
All other species	33,144	2,242
Port totals	3,642,144	$708,956
Port Hueneme		
Anchovy	19,718,380	$268,170
Squid	6,683,735	96,914
Jack mackerel	2,295,898	91,836
California halibut	34,983	14,301
Pacific bonito	176,180	13,901
Abalone	6,121	2,287
Turbot	18,547	1,469
Shark	8,130	1,053
All other species	9,842	2,392
Port totals	28,951,816	$492,323
Avila		
Albacore	192,850	$56,929
Abalone	112,269	41,899
Salmon	55,730	40,205
Rockfish	279,820	22,376
Petrale sole	120,678	19,852
White seabass	38,090	14,288
English sole	80,015	7,697
Lingcod	44,183	4,392
Sand sole	29,796	4,168
California halibut	9,858	4,030

TABLE 19—Continued
Value of Landings by Port, Santa Barbara Area, 1971—continued

	Pounds	Value
Avila—Continued		
Miscellaneous (animal food)	119,627	$2,392
Flounder	14,620	1,453
Swordfish	2,653	1,429
Perch	4,476	1,234
All other species	34,456	3,785
Port totals	1,139,121	$226,129
Oxnard and Ventura		
Spiny lobster	36,068	$49,244
California halibut	31,470	12,864
Abalone	21,052	6,656
Swordfish	5,823	3,137
Rockfish	14,101	2,006
Shark	13,591	1,725
All other species	20,464	2,743
Port totals	142,569	$78,375
SANTA BARBARA AREA TOTALS	**38,635,677**	**$2,736,567**

TABLE 20

Value of Landings and Shipments by Port, Los Angeles Area, 1971

	Pounds	Value
Terminal Island		
Landings:		
Yellowfin tuna	122,197,011	$25,465,857
Skipjack tuna	78,011,516	14,338,517
Bluefin tuna	10,095,500	2,100,874
Albacore	6,354,257	2,002,862
Jack mackerel	48,264,759	1,945,070
Pacific bonito	15,320,207	1,395,671
Anchovy	64,827,700	732,553
Bigeye tuna	1,586,784	332,907
Squid	1,319,675	24,282
Pacific mackerel	124,086	5,844
Total landings	348,101,495	$48,344,437
Shipments:*		
Albacore	29,817,213	$11,014,478
Skipjack tuna	48,399,956	10,773,830
Yellowfin tuna	15,522,346	4,267,093
Bluefin tuna	2,461,977	645,776
Bigeye tuna	65,019	15,143
Black skipjack tuna	50,800	4,277
Total shipments	96,317,311	$26,720,597
Port totals	444,418,806	$75,065,034
San Pedro		
Landings:		
Abalone	880,004	$245,149
Jack mackerel	5,385,391	217,031
Pacific bonito	1,790,382	163,104
Bluefin tuna	783,540	163,055
White seabass	394,210	153,387
Squid	6,859,700	126,218
Rockfish	342,537	69,249
Spiny lobster	44,092	62,011
Yellowfin tuna	248,774	51,844
Pacific Pompano	175,693	40,655
California yellowtail	330,124	37,370
Sardine	163,686	35,160
Rock crab	241,631	34,553
California halibut	78,522	30,466
Giant sea bass	104,343	23,936
Flyingfish	158,415	23,699
Swordfish	43,667	22,047
Anchovy	1,863,350	21,056
Shark	116,412	16,572
White croaker	226,978	16,370
Albacore	39,810	12,548
Smelt	107,817	5,785
California barracuda	8,737	2,928
Petrale sole	16,235	2,760
Halfmoon	8,351	2,081
Perch	10,093	2,046
Pacific mackerel	29,434	1,386
All other species	65,398	4,722
Port totals	20,517,326	$1,587,188
Wilmington		
Landings:		
Jack mackerel	3,761,477	$151,588
Anchovy	426,128	4,815
All other species	5,733	105
Total landings	4,193,338	$156,508

TABLE 20—Continued

Value of Landings and Shipments by Port, Los Angeles Area, 1971—Continued

	Pounds	Value
Shipments:*		
All other species	5,000	$421
Total shipments	5,000	$421
Port totals	4,198,338	$156,929
Long Beach		
Landings:		
Spiny lobster	18,259	$25,679
Rockfish	55,366	12,770
Anchovy	138,196	1,562
Swordfish	2,644	1,335
All other species	11,585	2,464
Port totals	226,050	$43,810
Newport Beach		
Landings:		
White seabass	21,812	$8,487
Rockfish	30,956	6,853
Spiny lobster	3,300	4,641
Swordfish	6,983	3,526
Albacore	8,458	2,666
All other species	5,534	580
Port totals	77,043	$26,753
Redondo Beach		
Landings:		
Rock crab	118,534	$16,950
Spiny lobster	1,473	2,072
All other species	2,714	515
Port totals	122,721	$19,537
Santa Monica		
Landings:		
Rockfish	20,727	$3,474
White seabass	5,355	2,084
Spiny lobster	1,028	1,446
All other species	2,717	640
Port totals	29,827	$7,644
All other ports		
Landings:		
Spiny lobster	5,401	$7,596
Abalone	3,681	1,270
All other species	10,555	1,695
Totals	19,637	$10,561
LOS ANGELES AREA TOTALS	**469,609,748**	**$76,917,456**

* Beginning in 1965 only tuna shipments are recorded.

TABLE 21

Value of Landings and Shipments by Port, San Diego Area, 1971

	Pounds	Value
San Diego		
Landings:		
Yellowfin tuna	28,495,200	$5,924,152
Skipjack tuna	23,362,342	4,289,326
Pacific bonito	2,509,631	231,639
Albacore	5,892,626	1,847,928
Bluefin tuna	6,371,850	1,274,370
Abalone	627,567	184,232
White seabass	222,529	95,376
Spiny lobster	63,995	86,636
Rockfish	346,048	73,585
Bigeye tuna	219,254	45,714
Swordfish	72,627	43,859
Sculpin	129,016	41,324
Sardine	134,200	33,550
Shark	147,860	28,117
California yellowtail	53,588	6,650
Giant sea bass	11,451	3,047
California halibut	6,513	3,023
California barracuda	7,172	2,230
Perch	9,857	2,051
Rock crab	14,123	1,994
Halfmoon	6,758	1,581
All other species	22,992	2,407
Total landings	68,727,199	$14,222,791
Shipments:*		
Skipjack tuna	5,164,554	$1,167,706
Albacore	2,196,642	783,762
Yellowfin tuna	1,901,342	502,144
Bluefin tuna	115,088	23,018
Total shipments	9,377,626	$2,476,630
Port totals	78,104,825	$16,699,421
Oceanside		
Landings:		
Spiny lobster	8,117	$10,989
Shark	52,035	9,865
Rockfish	31,041	6,648
White seabass	10,369	4,444
California halibut	5,750	2,668
Albacore	6,368	1,997
Halfmoon	5,838	1,366
All other species	26,911	4,198
Port totals	146,429	$42,175
All other ports		
All other species	1,506	$957
Totals	1,506	$957
SAN DIEGO AREA TOTALS	**78,252,760**	**$16,742,553**

* Beginning in 1965 only tuna shipments are recorded.

TABLE 22

Statewide Commercial Partyboat Catch by Species
(Not including anchored barges)
1962–1971 *

Species	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
Barracuda, California	335,507	483,699	303,070	443,304	892,697	470,480	372,246	358,518	373,801	50,474
Bass, kelp and sand	789,149	1,219,344	1,103,394	1,230,313	1,278,939	1,003,914	1,317,963	1,246,175	922,260	948,121
Bonito, Pacific	798,725	775,719	1,298,804	806,322	644,415	349,952	1,102,936	1,130,241	651,898	152,795
Cabezon	4,538	9,726	6,491	7,575	10,293	5,419	4,349	4,583	6,372	4,611
Halibut, California	118,966	125,669	141,465	118,213	88,726	63,582	54,663	27,634	29,968	10,598
Lingcod	25,399	27,513	25,263	33,260	44,676	43,559	42,449	32,693	61,833	63,239
Mackerel, jack	9,029	9,342	6,577	25,619	19,027	16,236	13,588	11,272	15,725	10,611
Mackerel, Pacific	116,738	146,560	101,219	151,896	205,090	108,366	78,933	120,036	129,770	224,223
Rockfish	956,438	962,659	966,801	1,347,430	1,688,718	1,894,057	2,102,859	1,978,981	2,663,882	2,222,943
Salmon	87,612	72,457	92,021	51,677	70,151	84,946	127,584	111,389	98,301	130,812
Sculpin	33,314	53,896	73,844	71,888	69,851	63,280	59,863	63,011	82,522	84,913
Seabass, white	14,564	19,800	14,901	9,775	3,972	3,385	4,138	4,056	4,359	5,265
Sheephead, California	13,488	18,443	26,822	41,651	52,967	42,676	33,075	49,626	39,464	38,300
Tuna, albacore	229,314	158,372	112,358	99,771	74,680	96,497	129,710	48,887	112,106	160,361
Tuna, bluefin	2,453	737	693	92	1,998	3,166	1,231	1,470	1,833	749
Whitefish, ocean	6,157	6,231	6,949	13,810	15,587	18,184	22,155	36,474	40,990	29,800
Yellowtail, California	21,826	45,705	39,104	18,367	80,163	31,392	58,049	79,202	97,376	44,608
All others	92,776	142,630	114,400	163,595	166,470	145,073	205,410	421,327	298,375	421,729
Total number of fish	**3,655,993**	**4,278,502**	**4,434,176**	**4,634,558**	**5,408,420**	**4,444,164**	**5,731,201**	**5,725,575**	**5,630,835**	**4,604,152**
Number of anglers	595,866	643,155	695,445	688,103	857,000	780,102	849,654	802,811	873,327	728,126

* See Fish Bulletin No. 121 for historical records 1936–1961.

TABLE 23

Inshore Bait Landings by Area
Pounds and Value
1971

Species	Sacramento	San Francisco and Monterey	Los Angeles	San Diego	Statewide*
Clam					
Freshwater	525,568	----	----	----	525,568
	$44,834	----	----	----	$44,834
Gaper	----	----	----	----	294
	----	----	----	----	$74
Jacknife	----	----	40,561	10,411	50,972
	----	----	$25,921	$5,929	$31,850
Pencil	----	----	----	----	259
	----	----	----	----	$777
Purple	----	----	55	9,788	9,843
	----	----	$28	$4,664	$4,692
Crab					
Sand	----	----	8,317	----	8,317
	----	----	$25,017	----	$25,017
Shore	----	----	----	----	3
	----	----	----	----	$43
Killifish	----	----	----	----	233
	----	----	----	----	$603
Mudsucker, longjaw	----	----	----	----	8,574
	----	----	----	----	$8,758
Mussel (bay and rock)	----	----	89,289	10,047	99,336
	----	----	$10,784	$1,200	$11,984
Sculpin, staghorn	1,024	472	----	----	1,496
	$3,304	$1,775	----	----	$5,079
Shrimp					
Bay	43,090	14,732	----	----	57,822
	$61,398	$20,463	----	----	$81,861
Brine	----	----	----	----	92,230
	----	----	----	----	$142,509
Ghost	----	----	5,441	2,140	7,581
	----	----	$25,869	$8,614	$34,483
Red	----	----	2,440	----	2,440
	----	----	$3,790	----	$3,790
Total	569,682	15,204	146,103	32,386	864,968
	$109,536	$22,238	$91,409	$20,407	$396,354

* Some figures are reported statewide only to avoid revealing the business of an individual in an area.

TABLE 24

Recorded Catch of Live Bait for Saltwater Sportfishing 1967–1971

Species	Thousands of pounds*				
	1967	1968	1969	1970	1971
Anchovy	10,774	14,353	10,627	12,210	12,774
Mackerel, jack	----	158	103	----	9
Mackerel, Pacific	----	----	8	----	1
Sardine, adult	1	57	34	----	----
Sardine, juvenile	T	----	----	6	T
Squid	----	23	9	----	10
Miscellaneous†	22	57	----	4	----
Total pounds	10,797	14,648	10,781	12,220	12,794
Number of vessels‡	16	19	10	11	14

* Weights are estimated from voluntary records. They should be regarded as minimal because some fishermen do not supply catch information.
T Less than 500 pounds.
† Consists primarily of queenfish and white croaker.
‡ The number of live bait fishing vessels for which landings were reported. These numbers differ slightly from those in previous catch bulletins, since the earlier landing records, as submitted, sometimes included the catch of more than one boat.

TABLE 25

California Ocean Recreational Salmon Landings and Success [1] by Fishery, Port, Month and Species, in Numbers of Fish—1971

	February			March			April			May			June			July		
	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day
Crescent City																		
Partyboat	0	0	[a]	1	7	[a]	0	0	[a]	0	0	[a]	5	24	0.5	51	198	0.9
Skiff	--	--	[a]	--	--	[a]	--	--	[a]	--	--	[a]	352	330	0.7	638	942	0.5
Eureka																		
Partyboat	0	0	[a]	0	0	[a]	20	15	[a]	80	55	[a]	473	319	0.9	726	2,048	1.6
Skiff	--	--	[a]	--	--	[a]	--	--	[a]	--	--	[a]	4,487	2,622	0.7	8,479	18,193	1.4
Fort Bragg																		
Partyboat	0	0	[a]	0	0	[a]	2	28	[a]	14	150	[a]	79	833	1.3	419	3,879	2.5
Skiff	--	--	[a]	--	--	[a]	--	--	[a]	--	--	[a]	193	1,066	0.9	495	3,801	0.8
San Francisco																		
Partyboat	6,586	0	0.8	23,140	63	2.3	9,023	2,907	1.1	6,176	1,129	1.0	5,911	2,354	1.1	15,177	2,390	1.8
Skiff	2,387	0	1.1	13,824	36	2.3	3,101	283	0.8	2,104	283	0.4	1,805	671	0.7	4,909	1,418	1.1
Monterey																		
Partyboat	324	0	[b]	537	0	[b]	306	0	[b]	285	0	[b]	51	0	[b]	37	0	[b]
Skiff	2,325	0	0.7	1,885	0	0.3	2,021	32	0.8	1,655	485	0.5	1,040	509	0.3	1,286	814	0.6
Statewide																		
Partyboat	6,910	0	0.8	23,678	70	2.3	9,351	2,950	1.1	6,555	1,334	1.0	6,519	3,530	1.1	16,410	8,515	1.8
Skiff	4,712	0	0.8	15,709	36	1.3	5,122	315	0.8	3,759	768	0.5	7,877	5,198	0.6	15,807	25,168	1.1

TABLE 25—Continued

California Ocean Recreational Salmon Landings and Success [1] by Fishery, Port, Month and Species, in Numbers of Fish—1971—Continued

	August			September			October			November			December			Season		
	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day
Crescent City																		
Partyboat	23	285	0.5	0	36	0.2	0	0	[a]	0	0	[a]	0	0	[a]	80	550	0.5
Skiff	412	2,262	0.1	38	145	0.4	--	--	[a]	--	--	[a]	--	--	[a]	1,440	3,679	0.7
Eureka																		
Partyboat	362	996	0.4	49	257	1.7	6	37	[a]	0	2	[a]	0	0	[a]	1,716	3,729	0.8
Skiff	3,258	6,002	0.7	111	514	0.7	--	--	[a]	--	--	[a]	--	--	[a]	16,335	27,331	1.0
Fort Bragg																		
Partyboat	221	2,953	1.4	64	364	0.7	0	0	[a]	0	0	[a]	0	0	[a]	799	8,207	1.7
Skiff	866	3,107	0.8	20	313	0.8	--	--	[a]	--	--	[a]	--	--	[a]	1,574	8,287	0.8
San Francisco																		
Partyboat	24,495	991	1.0	7,107	78	0.7	3,710	20	0.4	1,847	10	[a]	0	0	[a]	103,172	9,942	1.1
Skiff	9,676	943	1.2	2,775	74	0.6	1,197	4	0.5	929	0	1.0	0	0	[a]	42,707	3,712	1.0
Monterey																		
Partyboat	20	0	[b]	18	0	[b]	694	0	[b]	345	0	[a]	0	0	[a]	2,617	0	[b]
Skiff	1,630	92	0.5	888	52	0.4	3,546	0	0.4	1,555	0	0.7	0	0	[a]	17,831	1,984	0.5
Statewide																		
Partyboat	25,121	5,225	1.0	7,238	735	0.7	4,410	57	0.4	2,192	12	[a]	0	0	[a]	108,384	22,428	1.1
Skiff	15,842	12,406	0.8	3,832	1,098	0.5	4,743	4	0.4	2,484	0	0.8	0	0	[a]	79,887	44,993	0.8

[1] Salmon per angler-day, species combined. [a] No sampling. [b] Data not comparable to that of other ports or months.

TABLE 26

California Commercial Troll Salmon Landings by Port-Area, Month and Species, in Pounds [1] and Numbers—1971

	April		May		June		July		August		September		Season	
	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
Crescent City														
King	0	0	53,971	6,268	396,259	39,336	48,620	7,218	16,800	1,455	2,004	143	517,654	54,420
Silver	0	0	3,649	778	134,686	24,411	462,542	68,540	26,442	3,193	3,579	286	630,898	97,208
Pink	0	0	0	0	504	95	5,067	851	36	6	0	0	5,607	952
Eureka														
King	10	1	279,509	32,275	618,528	58,169	382,928	41,710	68,355	7,166	9,959	1,128	1,359,289	140,449
Silver	0	0	8,917	1,774	294,666	50,468	454,173	66,993	105,164	12,740	4,055	324	866,975	132,299
Pink	0	0	12	3	231	45	278	42	0	0	0	0	521	90
Fort Bragg														
King	0	0	175,737	18,134	271,146	25,185	410,176	32,145	151,638	12,160	10,944	735	1,019,641	88,359
Silver	0	0	9,917	1,992	329,618	51,454	547,251	67,410	324,686	35,135	20,403	2,482	1,231,875	158,473
Pink	0	0	0	0	209	44	541	79	0	0	0	0	750	123
San Francisco														
King	985	74	247,071	22,453	286,968	20,215	584,851	40,093	437,024	33,744	129,754	9,176	1,686,653	125,755
Silver	0	0	7,085	1,429	90,106	12,896	233,709	26,256	79,329	8,420	15,657	1,723	425,886	50,724
Pink	0	0	12	3	23	4	222	30	0	0	0	0	257	37
Monterey														
King	2,424	252	116,218	9,385	81,708	6,662	88,877	6,539	34,808	613	18,554	1,493	342,589	24,944
Silver	0	0	1,273	242	8,864	1,316	8,757	1,017	6,391	607	2,911	218	28,196	3,400
Pink	0	0	0	0	0	0	87	15	0	0	0	0	87	15
Statewide														
King	3,419	327	872,506	88,515	1,654,609	149,567	1,515,452	127,705	708,625	55,138	171,215	12,675	4,925,826	433,927
Silver	0	0	30,841	6,215	857,940	140,545	1,706,432	230,216	542,012	60,095	46,605	5,033	3,183,830	442,104
Pink	0	0	24	6	967	188	6,195	1,017	36	6	0	0	7,222	1,217

[1] Dressed, head on.

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